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The Times of India

DIRECTORY & YEARBOOK

INCLUDING WHO'S WHO

1969

Editor

SHAM LAL

Editor, "The Times of India"



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CONTENTS

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There is in some cases a discrepancy between the figures from the Central and a State Government relating to the same subject. This is generally pointed out in a foot-note.

	Page		Page
Index to Advertisers	v	Automobile Industry	164
Trade Directory for Buyers.. ..	ix	Cashewnut Industry	170
Political Map of India	<i>Opp. page 1</i>	Cement Industry	172
Physiography	1	Chemical & Pharmaceutical Industry	173
A Tourist's Guide	2	Coffee Industry	177
Defence Services	12	Coir Industry	178
Insurance	16	Cottage Industries	180
The Press	20	Handicrafts	185
Food	27	Glass Industry	186
Fisheries	32	Hides, Skins & Leather	186
Forests	36	Jute Industry	188
Agriculture	37	Lac Industry	189
Population	40	Mines & Minerals	190
Meteorology	58	Miscellaneous Industries	197
Livestock	60	Non-Ferrous Industry	199
Banking	64	Paper Industry	202
Bullion	66	Petroleum Industry	203
Capital Market	67	Plastics Industry	206
Import & Export Trade	70	Rayon Industry	207
Money Supply	75	Rubber Industry	209
National Income	76	Sericulture & Silk	212
Foreign Exchange Controls	77	Shipping Industry	216
Indians Overseas	78	Spices	219
Posts and Telegraphs	81	Sugar Industry	220
The Co-operative Movement (1966-67)	83	Textile Industry	221
Irrigation	85	Tobacco Industry	226
Electric Power Development	90	Vegetable Oil Industry	227
Administration of Justice	92	Woollen Industry	229
Constitution of India	95	Tea Industry	231
Some All India Corporations	98	Film Industry	232
State Corporations	102	Steel Industry	234
Public Finance	106	Railways	236
Broadcasting	109	Research	242
Community Development Projects and Panchayats	112	Social Welfare in India	251
Ports	114	Industrial Production 1968	255
Labour	117	Family Planning	259
Prohibition	128	Fourth Five Year Plan	260
Roads	129	Budgetary Position of the States 1969-70	263
Institutions for the Blind in India	131	Shipping Companies and Airways	264
Awards and Prizes	133	General Elections (1967)	269
Scheduled Castes, Tribes & Backward Classes	140	Legislative Councils, Legislative Assemblies, Lok Sabha and Rajya Sabha	274-305
U.S. Aid to India	143	Some Political Parties	305-311
Foreign Aid to India	146	Akil Bharat Hindu Mahasabha	305
Overseas Communications Service	148	All India Forward Bloc	306
Govt. Industrial Undertakings	149	Bharatiya Jan Sangh	306
State Owned or State Aided	158	Communist Party of India (Marxist)	306
Index Number	162	Communist Party of India	307
Alcohol Industry	163		
Arecanut Industry	163		

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CONTENTS

iii

	Page		Page
Indian National Congress	307	Andhra Pradesh	439
Peasants and Workers Party of India	308	Assam	440
Praja Socialist Party	309	Bihar	440
Revolutionary Socialist Party	309	Delhi	441
Samyukta Socialist Party	309	Gujarat	448
Swatantra Party	310	Kerala	451
Sports	312	Madhya Pradesh	453
Housing	313	Maharashtra	454
Andaman & Nicobar Islands	315	Trades & Commercial Associations in Greater Bombay	454
Andhra Pradesh	317	Chambers of Commerce in Greater Bombay	459
Map of Andhra Pradesh	316	Benevolent Institutions in Greater Bombay	459
Assam State	321	Cultural, Political, Professional, Scientific and Social Institutions	462
Map of Assam	322	Educational Institutions in Greater Bombay	469
North-East Frontier Agency	327	Missionary and Religious Societies in Greater Bombay	474
Bihar State	328	District-wise Associations in Maharashtra Districts	475
Map of Bihar	329	Mysore	478
Delhi	335	Orissa	480
Goa, Daman and Diu	337	Punjab	480
Dadra and Nagar Haveli	340	Rajasthan	481
Gujarat	340	Tamil Nadu	482
Map of Gujarat	341	Uttar Pradesh	487
Gujarat Districts	346-350	West Bengal	489
Haryana	350	States Administrative Personnel	497-512
Map of Haryana	351	Andhra Pradesh	497
Himachal Pradesh	353	Assam	498
Jammu & Kashmir State	354	North-East Frontier Agency	499
Map of Jammu & Kashmir	355	Bihar	499
Kerala	357	Delhi	499
Map of Kerala	358	Goa	500
Laccadive, Minicoy & Amindivi Islands	364	Gujarat	500
Madhya Pradesh	365	Haryana	501
Map of Madhya Pradesh	366	Himachal Pradesh	501
Maharashtra	372	Jammu & Kashmir	501
Map of Maharashtra	373	Kerala	502
Greater Bombay	383	Madhya Pradesh	503
Maharashtra Districts	388-395	Maharashtra	504
Manipur	395	Manipur	506
Mysore State	395	Mysore	506
Map of Mysore	396	Nagaland	506
Nagaland	403	Orissa	507
Map of Nagaland	403	Pondicherry	508
Orissa	403	Punjab	508
Map of Orissa	404	Rajasthan	509
Pondicherry	409	Tamil Nadu	510
Punjab	410	Tripura	510
Map of Punjab	411	Uttar Pradesh	511
Rajasthan State	414	West Bengal	511
Map of Rajasthan	415	Government of India Personnel	513-531
Tamil Nadu	419	Indian Embassies Abroad	527
Map of Tamil Nadu	420	High Commissions	528
Tripura	424	Special Missions	529
Uttar Pradesh	425	Commissions	529
Map of Uttar Pradesh	426		
West Bengal	433		
Map of West Bengal	434		
State Associations	439-497		

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INDEX TO ADVERTISERS

	Page		Page
Indian Embassies Abroad (Contd.)		Classified List of Overseas Firms with Names of	
Consulates-General & Consulates	529	Bombay Agents/Representatives	816-819
Vice-Consulates	530	Banks and Bankers, Maharashtra	820
Indian Trade Commissions Abroad	530	Kolhapur Trades and Professions	827
Embassies in India	531	Nagpur Trades and Professions	827
High Commissions in India	532	Poona District (Trades and Professions)	829
Foreign Consular Offices in India	533	Mysore Trades and Professions	834
U.N. & Other Bodies in India	535	Commercial Firms in Calcutta	837-847
Trade Commissions	535	Classified List of Trades and Professions in	
States Commercial Firms & Classified Trades	537-862	Calcutta	848-862
Andhra Commercial Firms	537	Who's Who in India	863-962
„ Classified List of Trades & Professions	538	Late Particulars	963-992
Delhi Commercial Firms	542	Awards and Prizes (Contd.)	963
„ Classified List of Trades & Professions	547	Ahmedabad District (Contd.)	964
Goa Classified List of Trades & Professions	567	Civil Aviation	964
Gujarat Commercial Firms	568	Education	967
„ Classified List of Trades & Professions	569	Educational Statistics (1965-66)	976
Baroda Trades & Professions	577	Fourth Five Year Plan	982
Madras Commercial Firms	581	Import-Export Trade (Contd.)	983
„ Classified List of Trades & Professions	585	Public Finance (Contd.)	983
Coimbatore Commercial Firms	592	Public Health	983
„ Classified List of Trades & Professions	593	Indo-Pakistan Relations	990
Commercial Firms in Bombay	595-684	Sino-Indian Relations	991
Classified List of Trades and Professions in		General Index	993
Bombay	685-815	Errata	1004
		Ownership Statement	1004

INDEX TO ADVERTISERS

	PAGE		PAGE
A. D. Wills Rowat (India) P. Ltd.	758	Camelin P. Ltd.	750
A. M. Master & Co.	811	Ceramica	788
Abbas & Co.	718	Chartered Bank	Inside Front Cover
Ahura Printing Press	782	Chemical International	707
Alpha Dynamic Products Pvt. Ltd.	726	Chic Cosmetics P. Ltd.	613
Amrutlal Bhurabhai & Co.	707	Chunilal & Co.	753
Arc Brazier	813	Cipla	viii
Arcoy Industries	569	Columbia Chemi-Colour Industries P. Ltd.	724
Ardeec Rubber & Automobile P. Ltd.	809	Crompton Greaves Ltd.	617
Arya Vaidya Sala	iv	D. Jamnadas & Co.	708
Aryan Brush Co. Ltd.	701	Deepak Industries	696, 735
Ashok Sunil & Co.	781	Devidayal Cable Industries Ltd.	619
Asian Chemical Co.	706	Dhiraj Steel Co.	806
Asiatic Travel Service	807	Dhootpapeshwar Industries Ltd.	695
Auto Accessories (India) Ltd.	765	Duke & Sons P. Ltd.	687
Balmer Lawrie & Co. Ltd.	604	Durga Laboratories	724
Bank of Baroda Ltd.	ii	Ellora Art Industries	729
Bank of Maharashtra Ltd.	vii	Elmont Engineering Co. P. Ltd.	727
Bombay Hardware Traders	745	Esskay Dying & Printing Works	724
Bombay Miscellanies P. Ltd.	692	Evergreen Wirecloth Factory	737, 814
Bralco Metal Industries Ltd.	609	Express Block & Engraving Studios P. Ltd.	783
Cambay Tool Steel Co.	805	Famous Ladders Mfg. Co.	691, 755

DIRECTORY & YEARBOOK

	PAGE		PAGE
Fancy Corpn. Ltd.	734	Mehta Mfrs.	702
Federal Book Mfg. Depot.	699	Merchant Bros.	787
Finlay, James & Co. Ltd.	625	Metal Printers Co.	803
Forbes Forbes Campbell & Co. Ltd.	626	Mohamadi Fine Art Litho Works	757
Fyrofo P. Ltd.	739	Mohini Agency	774
G. K. Kansara	761	Morarji Peraj & Co. Talpatriwala	<i>Facing Contents</i>
Golden Dyes Corpn. (India) P. Ltd.	725	Mysore Sugandhi Dhoop Factory	687
Great India Net Industry	814	N. Jamnadas & Co.	808
Greaves Cotton & Co. Ltd.	632	National Organic Chemical Industries Ltd.	651
Guest, Keen, Williams Ltd.	634	National Rayon Corpn. Ltd.	651
Gujarat Polythene Industries	780	Neiveli Ceramics & Refractories Ltd.	592
Gunvantray & Co.	575, 781	Neptune Waterproof Mfg. Co.	811
Gupta Cycle Co.	719	New Kem Insulations	751
Gyro Laboratories P. Ltd.	733	New Standard Chemicals Co. P. Ltd.	709
H. J. Leach & Co.	739	Noble Cycle & Motor Co.	720
Hargovind Dharamsi	743	Noble Paint & Varnish Co. P. Ltd.	771
Harshad Dye-Chem Industries	725	P. Ratilal & Co.	741, 763
Hindustan Tractors Ltd.	806	Packing Materials Corpn.	811
Hindustan Scale Co.	812	Parry & Co. Ltd.	662
Honesty Trading Corpn.	807	Pest Control (India) P. Ltd.	664
Imanes P. Ltd.	638	Plas-fab Pvt. Ltd.	666, 738
India Tool Steel Mart.. .. .	805	Pluck & Co.	686, 695
Indian Oxygen Ltd.	641	Prakash Chemical Co.	709
Indian Textile Journal P. Ltd.	642, 766	R. M. D. C. Press Pvt. Ltd.	783
International Burner Mfg. Co.	749	Raj & Co.	782
International Research Laboratories	725	Raji Chopra & Sons	715
J. B. Advani & Co.	<i>Inside Back Cover</i>	Rajat Stationery Mart	700
Jaam Chemie-Colour Co.	743	Ramesh Chandra Santram	778
Jai Hind Roadways	807	Rewa Printery	783
James Tools & Hardware Co.	712	Rex Stores	783
Jashvant C. Shah & Co.	644, 730	Richardson & Cruddas Ltd.	668
Jay Steel Corporation	806	Rockhand Fire Engineers	740
Jayant Paper Box Factory	704	Safeglas Corpn. P. Ltd.	743
Johnson & Phillips Ltd.	646	Sah & Sanghi	694
K. Parikh & Co.	752	Samir Glass Traders	743
K. Wadia	753	Sarabhai Engineering Group	579
K. C. P. Ltd.	590	Sarvodaya Reeds Mfg. Co.	801
Kapadia Brothers	771	Shaw Wallace & Co. Ltd.	672
Kashyap Chemical Industries	706	Shiv Embroidery Mfg. Co.	734
Kemi Color Industries	801	Shree Krishna Commercial Corpn.	773
Killick, Nixon & Co. Ltd.	648	Shri Ramtirth Yogashram	1004
Kirloskar Pneumatic Co. Ltd.	832	Simplex Machine Tools Co.	804
Kirtikumar Chandulal & Co... .. .	708	Simplex Timber Mart	690, 756
Kooverji Devshi & Co. P. Ltd.	739	Singer Sewing Machine Co.	673
Krishna Instruments & Appliances Co.	718, 721, 803	Sita World Travel (I) Pvt. Ltd.	808
Larsen & Toubro Ltd.	650	Solanki & Sons	740
Mahavir Refractories Corpn.	739	Sopher & Co.	731
Manubhai Shah & Co.	709	Sorabji Nowroji & Co.	674, 749
Mazagon Dock Ltd.	653	Standard Garage	695
Mehta Engg. Works	701	Sterling Steel Syndicate	805

	PAGE		PAGE
Suessen Textile Bearings Ltd.	696	Transacto	727
Sun Process Works	783	Travancore Cochin Chemicals Ltd.	iv
Supreme Industrial Works	759	Turner, Hoare & Co. Ltd.	680
Swastik Rolling Shutters & Engineering Works	786	Union Bank of India Ltd.	ii
Tata Iron & Steel Co. Ltd.	678	Universal Calendar Mfg. Co.	703
Techno Mechanic Co.	713	Vinay Calendar Co.	703
Thakoor Electricals	731	Williams, G. & Co. Ltd.	683
Three Brothers & Fils	685	Zenith Fire Services	740
Tradeco (India)	763	Zenith Rubber & Plastic Works	787
Trade Wings Pvt. Ltd.	714	Zephyr Leather Works	778

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Hanuman Bldg., 4th Floor, Tambakanta,
Pydhonie, Bombay-3 (BR).

Phones : 324323 & 323758. Grams : "MASRANICOY".
Manufacturers of Spring Washers, Shakeproof Washers,
Circclips and Precision Strip Forms; Factory at : Masrani
Estate, Halav Bridge, Kurla, Bombay-70 (AS).

SPORTS & GAMES

A. N. KAPUR & CO.,

Court House, Dhobitalao, Bombay-2

Phone : 312776

Grams : 'SANDAL'

Manufacturers & Stockists of Sports and Games, Agility &
Play ground apparatus.

SPRING WASHERS

FAIRFIELD MANUFACTURING CO.,

Hanuman Bldg., 4th Floor, Tambakanta, Pydhonie,
Bombay-3 (BR).

Phones : 324323 & 323758. Grams : "MASRANICOY".
Manufacturers of Spring Washers, Shakeproof Washers,
Circclips and Precision Strip Forms; Factory at Masrani
Estate, Halav Bridge, Kurla, Bombay-70 (AS).

SPRINGS

COMPRESSION, EXTENSION, TORSION-FLAT
CONICAL, DOUBLE CONICAL—SPECIAL
SHAPE—BARREL SHAPE—WIRE FORMS—
STRIP FORMS CLIPS—RINGS—CIRCLIPS—
DOWEL PINS ETC.

Manufactured to your specifications on latest
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Factory : Tel. : 693772.

Sainath Industrial Estate, Off Aarey Road, Gore-
gaon (East), Bombay-63. Office Tel. : 311605.
Old Hanuman 1st Cross Lane, Kalbadevi Road,
Bombay 2.

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JAGJIVANDAS NANDLAL & CO.

237, Abdul Rehman Street, Bombay 3.

Wholesale Stationers, Sole Distributors for Electric Pen-
Pencil Typewriting Carbon Papers, Electric Staples in
Sizes : 24/6, 26/6 and B, 8.

Phone : 323634.

Grams : "SWANHOUSE".

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STEEL TUBES OF INDIA PVT. LTD.

157, Princess Street, Bombay 2.

Manufacturers of ERW MS Steel tubes & G. I. Pipes in
Technical Collaboration with Kashiharas, Japan.
Factory: 27-34, Industrial Estate, Indore (M.P.).

STEEL & ALLOY STEEL CASTINGS

STEEL CAST CORPORATION,

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Phone : 4744

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Specialists in Steel & Alloy Steel Castings as Per Customers'
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SPRING STEEL STRIPS

Indentors & Stockists

INDUSTRIES COMBINE

32, Apollo Street, Bombay-1.

Phone : 251469.

Grams : "JYOTRASHMI".

STEEL FILES

SHAH & BROTHERS

234, Nagdevi Street, Bombay 3.

Authorised Distributors for J.K., Johnbaker and Hindustan Files.

Phone : 326797.

STRUCTURAL & MECHANICAL ENGINEERS

BEEHIVE FOUNDRY ENGINEERING WORKS,
MADRAS

PROPRIETORS:

INDIAN COMMERCE & INDUSTRIES CO. PVT. LTD.

Beehive Bldgs., 95, Broadway, Madras 1.

Phone : 21071.

Grams : "LUCKY & BEEHIVE".

Structural Fabricators & Manufacturers, Ferrous & Non-ferrous Alloys & Steel Castings, Machinery Parts, Electric Overhead Line materials, Transformer Structures, Cross Arms, Lamp Brackets & Fittings.

TALLOW MFRS.

Manufacturers of CONC. TEX TALLOW and other Textile Auxiliaries.

Dr. YAJNIK'S

KEMICOLOR INDUSTRIES

195, D. Naoroji Road, Bombay-1.

Phone : 261192.

TELEPHONE ENGINEERS & CONTRACTORS

SUPER SERVICES (INDIA)

18, New Queen's Road, Bombay-4.

Superphone Intercom Telephone.

Manufacturers: Supertone Record Players, Super Coiled Cords, Super Mini Fans, Dealers in all kind of Stereograms, Radios, Public Address Systems and Tape Recorders.

Hi-Fi Radios.

Phone : 352136.

TOOL, ALLOY & SPECIAL STEEL

Tool & Alloy Steel

Specialists in

Bohler & Saville's Steel.

INDIA TOOL STEEL MART

(Importers & Stockists)

200, Trimbak Pursuram Street, Golpitha, Bombay 4 (BR).
Phones: 331420 & 334531. Grams : "RAPIDEXTRA".

TOOL, ALLOY & STEEL

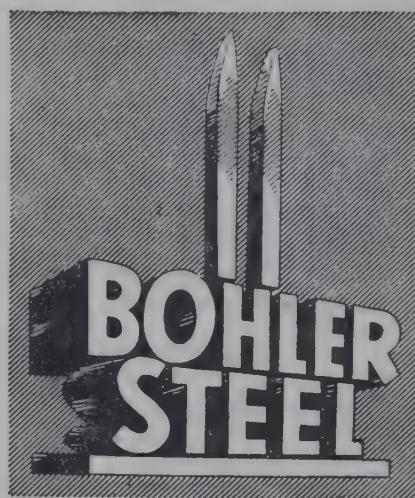
JAY STEEL CORPORATION

Indentors and Stockists of all types of Tool & Alloy Steels such as High Speed, Carbon, Silver, Hot Die, H.C., H.C., O.H.N.S., Stainless Nickel, Chrome & EN Specification Steels. 26, Narayan Dhuru Street, Bombay-3.

Phone : 323182 (shop), 367006 (Res.).

Grams : 'ROOPGEETA'

TOOL, ALLOY & SPECIAL STEEL



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- * O.H.N.S. Die Steels.
- * H.C.H.C. Steels
- * Nickel Chromium Steels
- * High Speed Steels
- * Hot Die Steels
- * Carbon Tool Steels
- * Stainless Steels,
- Magnetic & Non-magnetic,
- * Silver Steels
- * E.N. Specification Steels etc.
- Cut to size

Contact:

WORKSHOP ENGINEERING & EQUIPMENT CO.,

30-32, Bhajipala Street, Bombay 3.

Telephone: 322270—323336

Telegrams: "WEARRESIST"

TRADE DIRECTORY FOR BUYERS

TOOL, ALLOY & SPECIAL STEEL MINING TOOLS CO.

Empire House, Dr. Dadabhai Naorji Road, Bombay-1.
Call—262025.

Manufacturers of Tungsten Carbide Tipped Rock Drill
Stems and Rotary Coal Boring Tools.

Factory—Phone : 581196.

TOOL, ALLOY & SPECIAL STEEL

Continental Steel Corporation

Stockists of :

High Speed Steel, High Carbon, High Chromium Steels,
Oil Hardening Non-Shrinking Steels, Carbon Steels,
Stainless Steels, Nickel Chrome Steels, Silver Steels, Hot
Die Steels, EN Spfn. Steels.

Office : Haji Manzil, 82, Abdul Rehman Street,
Opp. State Bank, Bombay-3.

Phones : 325817 & 323893.

Shop : 12/14, Ardeshir Dady Street, Golpitha,
Bombay-1.

Phone : 356074.

TOOL, ALLOY & SPECIAL STEEL

LACHHMIDHAR KANSHIRAM

201, Masjid Bunder Road, Bombay 3.

Stockists of High Speed, High Carbon, High Chromium,
Oil Hardening Non-Shrinking, Carbon, Silver, Stainless
and EN Specification Steels.

Phone : 322048.

Grams : "IRONGOODS".

TRANSPORT CONTRACTORS BOMBAY GENERAL FREIGHT CARRIERS (P) LTD.

Regd. Office : 323/325, N. Natha Street,
Framjee House, Bombay-9.

Branches : Ahmedabad, Indore, Delhi, Faridabad, Ludhi-
ana, Rajpura, Calcutta, Kanpur, Hyderabad, Bangalore,
Coimbatore, Madras and Salem.

Phones : 323507—Admn. & A/cs. 323689, 328067—
Godown & Booking.

UMBRELLA MFRS.

BHARAT UMBRELLA MFG. CO.

65, New Hanuman Lane, Bombay-2.

Grams : "DHARUV".

Exporters, Specialists in Umbrella Cloth.

Phone : 315319.

VEE-BELTS

AUTO SPARES (INDIA)

Stockists of Vee-Belts & Fan Belts of all makes & types.
Opp. Opera House, Bombay-4.

Phones : 356920 & 355714.

WIRE PRODUCTS MFRS.

MULTIWELD WIRE CO. PRIVATE LTD.

59, Marol-Maroshi Road, Marol, Bombay 59.

Manufacturers of 'MULTIWELD' Welded wire fabrics—
better than Woven or crimped wire fabrics—Available
in Sheets, rolls. Suitable for all types of Protection & for
Concrete reinforcement.

Phones : 573169 & 574718.

Grams : "MULTIWELD", Andheri, Bombay.

WEIGHING & TESTING MACHINES

RAVI ENGINEERING CO.,

81B, Rajpur Road, Dehra Dun, U.P.
(INDIA)

Phone : 4064 & 3761.

Grams : 'TRUESCALES'
Dehradun.

Manufacturers of Road, Rail & Rail-Cum-Road weigh-
bridges, Dormant & Platform Scales, Counter Scales, etc.,
with Steelyard, Self-indicating Dial & Ticket Printing
Headcorks; Specialists & Maintenance Contractors of
weighing & Testing Equipment.

TRADE DIRECTORY FOR BUYERS

WELDING & REPAIR

AUTOGENOUS WELDING & REPAIR CO. PVT. LTD.

63, Fergusson Road, Bombay-13 (BC)

Specialists in repairs to Boilers by Welding, Rivetting, Patching; Steampipes, Tees, Bends. Expansion Bends etc., Fabricated and Supplied; Fabrication, Fitting and Welding of Specially Bent Boiler Tubes etc.

Phone : 373708.

Managing Director : K. B. Framroz D. Mehta.

Directors : Homi F. Mehta, Homi P. Elavia.

WIRE ROPES

ELDEE WIRE ROPES PVT. LTD.,

Manufacturers of quality Steel Wire Ropes & Stranded Wire.

Eldee Chambers, 3, Broach Street, Bombay-9.

Phones : 321141, 327848, 327689.

Grams : "ELDEEROPES."

Factory : Maharashtra Industrial Development Corpn., Dombivili, Kalyan. Registered with D.G.S. & D., Railways and State Governments.

ZIP FASTERNERS

HOME INDUSTRIES CORPORATION

Home of "HOMCO" Brand Zip Fasteners.

Available in all Sizes & Lengths.

Inquire :

64, Commercial Chambers, Masjid Bunder Road, Bombay-3.

Phone : 322997.

Grams : "DESIHUNAR".



PHYSIOGRAPHY

STATES, TERRITORIES

The country is divided into 17 States and 10 Territories. The latter are under Central administration.

The 17 States (with the capital towns in brackets) are :

Andhra Pradesh (Hyderabad), Assam (Shillong), Bihar (Patna), Gujarat (Ahmedabad*), Haryana (Chandigarh), Kerala (Trivandrum), Madhya Pradesh (Bhopal), Tamil Nadu (Madras), Maharashtra (Bombay), Mysore (Bangalore), Nagaland (Kohima), Orissa (Bhubaneswar), Punjab (Chandigarh), Rajasthan (Jaipur), Uttar Pradesh (Lucknow), West Bengal (Calcutta), Jammu and Kashmir (Srinagar).

The 10 Territories (with capital towns in brackets) are :

The Andaman and Nicobar Islands (Port Blair), the Laccadive, Minicoy and Amindivi Islands (temporary headquarters at Kozhikode, Kerala), Delhi (Delhi), Himachal Pradesh (Simla), Manipur (Imphal), Tripura (Agartala), Dadra and Nagar Haveli (Sylvassa), Goa, Diu and Daman (Panaji), Pondicherry (Pondicherry) and Chandigarh (Chandigarh).

In addition, there is one territorial unit : The North-East Frontier Agency, administered by the Governor of Assam as Agent of the Central Government.

GEOGRAPHY

Bounded by the Himalayas in the north, the country stretches southwards and, at the Tropic of Cancer, tapers off into the Indian Ocean between the Bay of Bengal on the east and the Arabian Sea on the west. Lying entirely in the northern hemisphere, the mainland extends between latitudes 8°4' and 37°6' north and longitudes 68°7' and 97°25' east, measures about 3,219 km. from north to south and about 2,977 km. from east to west and covers an area of 32,76,141 sq. km.† It has a land frontier 15,168 km. long and a coastline of 5,689 km.

According to the 1961 Census the total population was 439,234,771.

The population grows roughly at the rate of 2.3 per cent (*i.e.* about 12 million a year). The population of India in 1968 was about 518 million.

Physical Features : The mainland comprises three well-defined regions 1) the great mountain zone of the Himalayas, 2) the Indo-Gangetic Plain and 3) the southern Peninsula.

The Himalayas comprise three almost parallel ranges interspersed with large plateaus and valleys some of which, like the Kashmir and Kulu valleys, are fertile, extensive and of great scenic beauty. In these ranges, some of the highest peaks in the world are situated. The high altitudes limit travel only to a few passes, notably the Jelep La and Nathu La on the main Indo-Tibet trade route through the Chumbi valley, north-east of Darjeeling. The mountain wall extends over a distance of about 2,414 km. with a varying depth of 240 to 320 km. In the east between India and Burma and India and Pakistan, the hill ranges are much lower. The Garo, Khasi, Jaintia and Naga hills running almost east-west join the chain of the Lushai and Arakan hills running north-south.

The Indo-Gangetic Plain, 2,414 km. long and 241 to 321 km. broad, is formed by the basins of three distinct river systems the Indus, the Ganga and the Brahmaputra. Between the Yamuna river at Delhi and the Bay of Bengal,

nearly 1,609 km. away, there is a drop of only 214 metres in elevation.

The Peninsular plateau is marked off from the Indo-Gangetic Plain by a mass of mountain and hill ranges varying from 458 to 1,220 metres in height. The more prominent among these are the Aravali, Vindhya, Satpura, Maikala and Ajanta. The Peninsula is flanked on one side by the Eastern Ghats, where the average elevation is about 614 metres, and on the other by the Western Ghats where it is generally from 915 to 1,220 metres, rising in places to over 2,440 metres. Between the Western Ghats and the Arabian Sea lies a narrow coastal strip, while between the Eastern Ghats and the Bay of Bengal there is a broader coastal area. The southern point of the plateau is formed by the Nilgiri Hills where the Eastern and Western Ghats meet. The Cardamom Hills lying below may be regarded as a continuation of the Western Ghats.

Geologically also, India consists of the same three distinct units, namely, the ancient block of the Peninsula, the Himalayas and their associated group of young fold-mountains and the Indo-Gangetic Plain.

India is so vast and diversified that expressions like 'average rainfall,' 'average temperature' have no meaning. The average annual rainfall in the Thar desert is 4 inches, while that in Cherrapunji is 425.

Similarly places in Kashmir have a minimum temperature of 49°F. while places in Rajasthan have recorded a maximum temperature of 120°F. So one can only speak of local averages rather than of national averages.

Compared with the size of the country, the coast-line is short, as there are few bays or inlets. Hence there are also very few harbours. The fact is the west coast is rocky and the sea is deep near the coast, while in the east the sea is extremely shallow so that big ocean-going ships have to weigh anchor at some distance from the shore.

The only so-called natural harbours are Bombay and Goa, while Madras, Vishakapatnam and Port Okha are examples of purely artificial harbours built by human enterprise.

The principal ports in India are (going from west to east along the coast), Kandla, Bedi Bunder, Port Okha, Porbandar, Surat, Bombay, Mormugao, Mangalore, Kozhikode (Calicut), Cochin, Alleppey, Quilon, Tuticorin, Dhanushkodi, Nagapattinam, Karikal, Cuddalore, Pondicherry, Madras, Masulipatnam, Kakinada, Vishakapatnam and Calcutta.

The main cultivated plants include rice, wheat, pulses and grains. Among the important seeds grown are castor, sesamum and ground-nut.

The chief fruit trees include mango, coconut, arecanut and certain citrus fruit. Apples, peaches, pears, apricots and walnuts are confined chiefly to the Himalayan valleys.

There are tea plantations over large areas on the mountains in the north-east and south, while coffee, cardamom, pepper and rubber are extensively grown in the south. In some of the damper regions the cinchona is successfully cultivated.

Among the wild animals are the tiger, the elephant, leopard, panther, the cheetah, the marbled and jungle cat, the wolf, jackal, wild dog, the black and the Himalayan bear, the rhinoceros, crocodile, wild hog, wild ass, antelope, gazelle, sambhar, spotted deer, bison, wild buffalo, many kinds of reptile (cobra, Russel's viper).

* Actually a new capital is to be built outside the city.

† Including Sikkim (7,107 sq. Km.).

Among the domestic animals are cattle, buffaloes, sheep, goats, horses and ponies, mules and donkeys, camels, and fowl.

Birds include the parrot, peacock, maina, different kinds of vulture and eagle, kingfisher, pigeons, ducks, partridges, plover, quail and snipe.

Among the more useful insects are the bee, silk worm, cocoon lac (the one that gives lac). Mosquitoes abound everywhere. Locust invasions are not frequent.

Edible fish include the carp family, cat fishes the hilsa and mahseer.

River Systems: The rivers in India may be classified as follows: (a) the Himalayan rivers, (b) the Deccan rivers, (c) the coastal rivers, and (d) the rivers of the inland drainage basin. The Himalayan rivers are generally snow-fed and have, therefore, continuous flow throughout the year. The Deccan rivers are generally rain-fed and, therefore, fluctuate very much in volume. The coastal streams specially of the West Coast, are short in length and have limited catchment areas. The streams of the inland drainage basin of Western Rajasthan are few and far between. They drain towards the individual basins or

salt lakes like the Sambhar or are lost in the sands, having no outlet to the sea. The Luni is the only river that drains into the Rann of Kutch. The Ganga is joined by a number of Himalayan rivers including the Yamuna, Ghaghara and the Kosi. The western most river of the Ganga system is the Yamuna which joins the Ganga at Allahabad. Of the rivers flowing north from Central India into the Yamuna or the Ganga, mention may be made of the Chambal, the Betwa and the Sone.

The river basin of the Godavari is the second largest in India. It comprises about 10 per cent of the total area of the country. The basins of the Brahmaputra in the east and the Indus in the west are of about the same size. The Krishna basin is the second largest in Peninsular India. The other rivers are the Mahanadi, the Narmada in the uplands of the Deccan and the Kaveri in the far south. The Tapti in the north and the Pennar in the south are agriculturally very important.

Climate: The India Meteorological Department recognises four seasons: (1) the cold weather season (December-March), (2) the hot weather season (April-May), (3) the rainy season (June-September) and (4) the season of the retreating south-west monsoon (October-November).

A TOURIST'S GUIDE

For all information and assistance, visitors are advised to contact the Government of India tourist offices in India. The representatives of the Tourist Department are stationed on duty at the airport and in the case of Bombay a representative of the Tourist Office always meets all important passenger liners.

THE following hints meant for foreign tourists may be useful:

1. Every foreign tourist entering India should be in possession of a valid passport issued by his Government.

He should also obtain before leaving his country a tourist visa from the Indian representative abroad (or the British representative in countries where there are no Indian representatives). Commonwealth citizens (except those of Pakistan, Ceylon, persons employed in the Defence Services of Pakistan), British subjects, British protected persons, British citizenship passport holders ordinarily residents of Kenya, are exempt from the visa requirement, provided their passports are valid for travel to India. Persons of non-Indian origin domiciled in South Africa are, however, required to obtain visas for India.

Transit visas are not required for through air/ship passengers in direct transit by the same flight or by the next regularly scheduled flight irrespective of whether the flight is of the same or a different Airline, provided the period does not exceed 72 hours and they leave from the same place. One can however leave the airport or ship by obtaining a landing permit for 72 hours on depositing his passport. No landing permits will be issued to Pakistanis, South Africans of European extract, Portuguese of European extract, and citizens of People's Republic of China. However, in the case of Pakistanis, landing permits are issued for 24 hours' duration only. No direct transit facilities are, however, granted to the Chinese.

The normal period of stay cannot be stated. It depends upon the stay period granted by the visa issuing authority.

For short visits not exceeding 2 weeks to Pakistan, Nepal, Ceylon and Burma tourists may obtain return visas from the Deputy Commissioner of Police, Special Branch

II, C.I.D., Head Police Office, Annexe-2, Crawford Market, Bombay or from State Government. For visits exceeding 2 weeks, they may apply for 'no objection' to return to India endorsements to the Deputy Commissioner of Police, Special Branch II, C.I.D., Bombay or State Government. However in such cases they will have to obtain visas from the Indian authorities abroad before entering India.

2. No registration is required for foreigners staying in India for 90 days or less provided they have come on visas of 3 months or less. If they land in India with visas for more than 3 months' stay, then they must report for registration within 7 days to the Registration Officer of their destination and present the "B" Form (temporary registration certificate) issued to them at the place of entry.

Commonwealth citizens are exempt from registration formalities, except British Passport holders whose national status is described as British Subject and missionaries, British protected persons and Australian protected persons.

Return visa or double/triple entry visa holders would be required to get themselves registered after 90 days of their actual stay in India and not after 90 days of their first entry into India.

Departures: Tourists, if they are registered, are exempted from reporting their movements and also from taking departure endorsements from the Registration Officer with whom they are registered.

It should be brought to the notice of tourists to surrender their registration papers at the time of their departure, as it is found that tourists or others who get themselves registered before the expiry of 90 days and leave India also before completion of 90 days, carry registration papers with them.

For holders of Entry Visas : Visitors holding registration certificates have to obtain before departure exit endorsements from the Registration Offices of the District in which they are initially registered.

3. The Government of India have placed no health restrictions on persons entering India by sea or air, except in regard to yellow fever.

Tourist visas are generally valid for a single journey only, but visitors who wish to proceed on short trips to other countries and return to India within the period of validity of the Indian visa, should apply for double or triple entry visas or entry-cum-transit/transit-cum-entry visas. If a visitor coming on short term visas wishes to extend his stay in India, he can, after arrival in India, apply for further extension of stay.

Foreigners who come on visits not exceeding three months for recreational or sightseeing purposes or for attending meetings convened by the Government of India or international bodies should, in their own interest, apply for tourist visas and not entry visas. Holders of tourist visas are entitled to the grant of Tourist Introduction Cards and All-India liquor permits, reservation of accommodation in Government-owned Rest Houses and Resting Rooms at railway stations, etc.

4. All baggage is subject to customs examination. Articles of high value e.g. radios, cameras, binoculars, type-writers, transistors, etc. are exempted from duty provided they are entered in the re-export declaration form and re-exported within 6 months.

5. Tourists are allowed to bring into India foreign currency notes of any amount subject to declaration on the Currency Declaration Form issued by the customs at the air/sea port or checkpoint on the land border.

There is no limit on the amount of Travellers' Cheques. Import and export of Indian currency are banned.

The official rates of exchange are as follows : £1 equal to Rs. 18.00 ; U.S. \$1 equal to Rs. 7.50. The actual buying and selling rates, however, differ slightly from these rates.

Additional concessions for tourists :

Liquor Permits : Bona fide tourists having Tourist Visas/Tourist Introduction Cards can obtain All-India liquor permits valid for three months from Indian Missions abroad or from the Tourist Offices of the Government of India at Delhi, Bombay, Madras and Calcutta if they have not already an All-India Liquor Permit from Indian Missions abroad. The Government of India Tourist Office at Bombay is at 123, Maharshi Karve Road, Bombay-20.

Sporting Fire-arms : Not more than three sporting fire-arms brought in by a tourist are allowed free of duty. These must, however, be re-exported within a period of six months.

Cartridges : 200 cartridges are allowed duty-free under the normal rules. Each tourist is allowed to bring in 200 cartridges, on payment of customs duty, but without an Import Trade Control Licence.

Film : A tourist is allowed to import 25 rolls of film or 48 plates for still cameras and 8 reels of substandard movie films duty free under the normal rules. Besides he can import any number of rolls of films that could be adopted for the cameras imported without limit in quantity for still cameras after paying full customs duty without a licence. The quantity in excess of the duty free limit is subject to being entered on the Re-Export Form.

On production of a certificate from an authorised officer of the Tourist Department of the Government of

India, foreign tourists are allowed a concession of 15 per cent on the basic air-conditioned first class fares and 'Travel As You Like' ticket on the Indian Railways, available for 30 days in an air-conditioned class of accommodation and in first class where air-conditioned accommodation is not available at a lump sum rate of Rs. 723.

TRAVEL AGENCIES

List of some Travel Agencies Approved by the Government of India with their telegraphic addresses within inverted commas :

Bombay : American Express Co., Ltd., Oriental Building, 364, Dr. Dadabhai Nawroji Road, P.B. No. 507, Bombay-1 (Head Qtrs.): "AMEXCO"; Asiatic Travel Service, Post Box No. 1569, 12, Murzban Road, Fort, Bombay-1. (Head Qtrs.): "AIRASIA"; Balmer Lawrie Co. Ltd., 5, Graham Road, Ballard Estate, Bombay-1, (Branch): "BALMER"; Cox & Kings (Agents) Ltd., Lloyds Bank Building, Dadabhai Nawroji Road, P.B. No. 398, Bombay-1. (Head Qtrs.): "COXSHIP"; Everett Travel Service, 221, Dr. Dadabhai Nawroji Road, Post Box 523, Bombay-1. (Branch): "TRAVERETT"; Sita World Travel (India) 316, Airlines Hotel, Churchgate, Bombay: "SITA TRAVEL"; Jeena & Company, Post Box No. 849, 10, Veer Nariman Road, Fort, Bombay-1: "JUSTITIA"; Lee & Muirhead (India) Pvt. Ltd., 12, Rampart Row, Fort, Bombay-1. (Head Qtrs.): "LEMUIR"; Mercury Travels (India) Pvt. Ltd., 70, Forbes Street, Fort, Bombay-1. (Branch): "MERC-TRAVEL"; Thos. Cook & Son (Continental Overseas) Ltd., P.B. No. 46, Cooks Building, Dr. D. Nawroji Road, Bombay-1. (Head Qtrs.): "COUPON"; Trade-Wings (Private) Ltd., 30/32, Rampart Row, Fort, Bombay-1. (Head Qtrs.): "TRAVEL".

Calcutta : American Express Co. Inc., P.B. No. 2311, 21, Old Court House Street, Calcutta. (Branch): "AMEXCO"; Balmer Lawrie & Co. Ltd., 21, Netaji Subhash Road, P.B. No. 4, Calcutta-1. (Head Qtrs.): "BALMER"; Everett Travel Service, 1, Old Court House Street, Calcutta-1. (Head Qtrs.): "TRAVERETT"; Jeena & Company, 25, Netaji Subhash Road, Calcutta-1. (Branch): "TRAVELJENA"; Mercury Travels (India) Pvt. Ltd., Oberoi Grand Hotel, Calcutta. (Head Qtrs.): "MERCOTRAVEL"; Sita World Travel (India) Private Ltd., 24-B, Theatre Road, Calcutta. (Branch): "SITA-TRAVEL"; Trade Wings (Calcutta) Pvt. Ltd., 15, Old Court House Street, Calcutta-1. (Head Qtrs.): "TRAVEL-LING"; Travel Corporation (India) Pvt. Ltd., Great Eastern Hotel, Calcutta. (Branch): "TRAVELAIDS"; Speedways International, 3, Chowringhee Square, Calcutta-13. (Head Qtrs.): "SKYINT".

Delhi : American Express Co., Inc., Hamilton House, A-Block, Connaught Place, New Delhi-1. (Branch): "AMEXCO"; Asiatic Travel Service, 1/90, Connaught Place, New Delhi-1. (Branch): "AIRASIA"; Cox & Kings (Agents) Ltd., Indra Place, Connaught Circus, P.B. No. 134, New Delhi-1. (Branch): "COXSHIP"; Everett Travel Service, Prom House, C-Block, Connaught Place, New Delhi-1. (Branch): "TRAVERETT"; Jeena & Co., Jeena House, 50, Hanuman Road, Connaught Place, New Delhi-1. (Branch): "TRAVELJENA"; Mercury Travels (India) Pvt. Ltd., Hotel Imperial, Janpath, New Delhi. (Branch): "MERCOTRAVEL"; Sita World Travels (India) Pvt. Ltd., 1st Floor, F12-13, Connaught Place, New Delhi. (Head Qtrs.): "SITA-TRAVEL"; Trade-Wings (P) Ltd., 60, Janpath, New Delhi. (Branch): "TRAVIT"; Travel Corporation (India) Pvt. Ltd., C-35, Connaught Place, New Delhi-1. (Branch): "TRAVELAIDS".

Madras: Asian Travel (India) Pvt. Ltd., 1, Patullos Road, Mount Road, Madras-2. (Head Qtrs.): "WORLD TRAVEL"; Mercury Travels (India) Pvt. Ltd., C/o Hotel Savore, 39, Mount Road, Madras-6. (Branch): "MERCOTRAVEL"; Ram Mohan & Co. Private Ltd., 362, Netaji Subhash Road, P.B. No. 1723, Madras. (Head Qtrs.): "GACANFAC"; Thos. Cook & Son (Continental & Overseas), 4/5, First Line Beach, Madras-1. "COUPON"; Trade-Wings (P) Ltd., Purushottam Buildings, 193, Mount Road, Madras. (Branch): "TRAVELAGES"; Orient Express Co. Private Ltd., 35, Mount Road, Madras. (Branch): "OFEXPRESO".

Srinagar: Mercury Travels (India) Pvt. Ltd., Oberoi Palace Hotel, Srinagar. (Branch): "MERCOTRAVEL"; Travel Corporation (India) Pvt. Ltd., Kaul Building, Hotel Road, Srinagar. (Branch): "TRAVELAIDS".

SHIKAR OUTFITTERS

The following is a list of recognised shikar outfitters. The telegraphic address is given within brackets:

Allwyn Cooper (P) Ltd., Wardha Road, Nagpur: (QUALITY NAGPUR); Indian Shikar & Tours (P) Ltd., Jumna Bhavan, 3/14A, Asaf Ali Road, New Delhi: (BIGGAME, NEW DELHI); Rao Naidu Shikars, Tara Villa, Benzonbagh, Nagpur: (BULLET, NAGPUR); Tigerland Shikars, 49-Denning Road, Jabalpur (M.P.): (FRANKLYWOOD, JABALPUR); Big & Small Game Hunting, Raghunathpur, Dist. Morena (M.P.): (TIGER, MORENA); Hunters & Hunters, 212-Olympus Apartments, Altamount Road, Bombay: (TIGERHUNT, BOMBAY); Shikar Adventures, 5-3-960/1, Faish Jung Lane, Jawaharlal Nehru Road, Hyderabad: (HUNTS, HYDERABAD); Wild Sports of India, 'The Grove', P. O. Hazaribagh, Bihar: (THE GROVE, HAZARIBAGH); M. Asaf Ali of Porla, 111, Dangerfield Road, Sadar, Nagpur: (TIGERHUNT, NAGPUR); Carlton Tiger Hunters, Carlton Hotel, Shahnajaf Road, Lucknow: (CARLTON, LUCKNOW); Kumaon & Hunters (P) Ltd., Tajpur Estate Farms, P. O. Afzalgarh, Dist. Bijnor (U.P.): (HUNTERS, AFZALGARH); Allwyn Mercury (N.I.) (P) Ltd., Hotel Oberoi Intercontinental, New Delhi: Dewas Tiger Hunters, Dewas (M.P.), (Khas Kothi, Bombay-Agra Road); Super Safaris, P.B. No. 365, Ghat Road, Nagpur: (RAJ-LAKS, NAGPUR); Shikar India, Talcher, Dhenkanal, Orissa: (SURESHOOT, TALCHER); Tiger Trophies, 430-Napier Town, Jabalpur (TROPHIES, JABALPUR); Safaris India, 102, Simrole Road, Mhow (M.P.): (SAFARINDIA, MHOW); Jungleways, Pachmarhi (M.P.): (JUNGLEWAYS, PACHMARHI); Royal Safari the Palace Amod Amod Distt. Baroda Gujrat; Tiger Sports (P) Ltd., The Garh, P.O. Bladis (U.P.); Tigers & Tigers, M. I. Road, Jaipur; Maharaja Tiger Shikars, Brijraj Bhawan, Kota (Rajasthan); Spots & Strips Shikar Company, Tikra House, 25, Cantonment Road, Lucknow-I.

TOURIST OFFICES

The following is a list of Government of India tourist offices in India and abroad:

Director, Govt. of India Tourist Office, 123, Maharshi Karve Road, Bombay-20.

Director, Govt. of India Tourist Office, 88, Janpath, New Delhi.

Director, Govt. of India Tourist Office, 33, Old Court House Street, Calcutta.

Director, Govt. of India Tourist Office, 15, Mount Road, Madras.

Manager, Govt. of India Tourist Office, Krishna Vilas, Station Road, Aurangabad.

Manager, Govt. of India Tourist Office, The Mall, Agra.
Manager, Govt. of India Tourist Office, 15-B, The Mall, Banaras.

Manager, Govt. of India Tourist Office, Willingdon Island, Cochin-3.

Manager, Govt. of India Tourist Office, Rajasthan State Hotel, Jaipur.

Director, Govt. of India Tourist Office, 19 East 49th Street, New York 17, N.Y.

Director, Govt. of India Tourist Office, 685, Market Street, San Francisco 5, California.

Director, Govt. of India Tourist Office, Indisches Verkehrsburo, Kaiser Strasse 77, Frankfurt/Main, W. Germany.

Director, Govt. of India Tourist Office, Carlton Centre, 55, Elizabeth Street, Sydney, N.S.W. (Australia).

Director, Govt. of India Tourist Office, 8, Boulevard, de la Madeleine, Paris-9.

Information Assistant, Govt. of India Tourist Office, Railway Station, Jalgaon.

Manager, Government of India Tourist Office, Gulab Bhavan, Jammu.

Director, Govt. of India Tourist Office, 177-79, King Street (West), at University, Toronto, Canada.

Govt. of India Tourist Office, No. 1, Ginza, 7 Chome, Chuo-Ku, Tokyo (Japan).

Govt. of India Tourist Office, 201, North Michigan Avenue, Chicago (U.S.A.).

Note: Most of the State Governments have Tourist Offices at the important centres.

PLACES OF TOURIST INTEREST*

Mount Abu (hill station): Pop. 8,076 (1961) in Rajasthan, about 4,000 feet above sea-level. *Places worth a visit:* 1. the Dilwara Jain temples (11th-13th century, A.D.) containing the finest marble carvings in India, 2. Achalgarh temples (15th-16th century, A.D.) and Mandakini Kund, 3. Ruins of an ancient town called Chandravati, 4. Nakki Talao (lake), 5. Arbuda Devi, a shrine cut in rock, 6. Guru Shikhar (5,646 ft.), highest point in Abu, 7. Sunset point, 8. Palanpur point, 9. Gaumukh Temple and Agni Kund, 10. the Municipal Park. Mount Abu is reached by railway and road.

Agra: Pop. 5,08,680 (1961), a city in U.P., stands on the banks of the Jamuna. It was the capital of the Moghul Empire. *Places worth a visit:* 1. the Taj Mahal, regarded by many as the most beautiful building in the world. 2. the Fort, 3. the Juma Masjid, 4. Moti Masjid, 5. the tomb of Itmad-ud-Daula, 6. Akbar's tomb at Sikandra about five miles from Agra, 7. Dayal Bagh, 8. Twenty-three miles from Agra is the deserted city of Fatehpur Sikri founded by Akbar.

Ahmedabad: in Gujarat is the second largest textile centre in India. It contains numerous monuments of the fifteenth and sixteenth centuries. Pop. 11,49,918 (1961).

Places worth visiting are: 1. Jumma Masjid (1423); 2. Shah Alum's Mausoleum (1475); 3. Rani Sipri's Mosque (1540); 4. Mosque of Sidi Sayyad (1572) for traceried windows with palm and parasite design; 5. Shaking Minarets; 6. Shahi Baug where Gurudeo Tagore stayed during his youth and which supplied him with material for his *Hungry Stones* (story); 7. Teen Darwaza (three Gates); 8. Mahatma Gandhi's Sabarmati Ashram; 9. Kankaria Tank; 10. Gujarat University & Gujarat Vidya-pitha; 11. ATIRA, Textile Research Institute.

* When the population of a town is not given, it may be generally assumed that it is less than 20,000.

Ajanta Caves : are 66 miles north of Aurangabad in Maharashtra. The rock-cut caves are 29 in number (5 chaityas or shrines and 24 viharas or monasteries, all Buddhist) and present a record of a unique combination of painting, sculpture and architecture of a period extending over nine centuries from about the 2nd Century B.C. to about 7th Century A.D. The caves can be reached from Aurangabad where there is a good hotel conducted by the Central Railway.

Allahabad : (also called Prayag) ; city in U.P. situated at the confluence of the Ganga and the Jamuna. It has an old fort and an Asoka pillar. Sixty-five miles from Allahabad is Kosambi, where the ruins of an ancient capital are being excavated. Pop. 4,11,955 (1961).

The confluence of the Ganga and Jamuna at Prayag is the holiest bathing place for Hindus in India. Every 12 years, Kumbha Mela (religious fair) is held attracting over 40 lakhs of pilgrims during the four weeks ; a smaller fair occurs every six years—Adha Kumbhi.

The old Mughal Fort contains an underground temple where well carved images are seen and the pilgrims worship at a small tree taking it to be the Eternal Banyan Tree (Akshaya Vata).

Almora : headquarters of the district of the same name, in U.P. 83 miles from Kathgodam Railway Station, it is the main town in Kumaon Hills (q.v.). Perched at an elevation of 5,600 ft., it is about two miles in length, like a saddle, and is said to have been founded four hundred years ago by Raja Kalyan Chand. Almora has moderate rain-fall, temperate climate, the temperature seldom rising above 88°F., even during the summer days, and comparative freedom from fog. Within easy distance of Almora are many Himalayan peaks—Seehee Debi, Bandnee Debi and Binsar being the chief ones. Binsar Hill also known as Jhandi Dhar is only 13 miles from Almora and the bridle path leading to it, passes through enchanting jungle scenery.

Pindari Glacier can be reached from Almora at a distance of 75 miles, in eight stages, attaining an altitude of 13,000 to 14,000 ft. The most suitable time for this trip is either May-June or September-October.

Two other places in the Kumaon Hills are : Ranikhet and Naini Tal.

Amritsar : city in the Punjab, sacred to the Sikhs. Pop. 3,76,295 (1961). Amritsar is the very centre of the Sikh religion and has a big trade in grain and textiles. *Places worth a visit :* 1. the Golden Temple, 2. Baba Atal Tower, 3. Akal Takht, 4. Ram Bagh Gardens, 5. Fort Govind Garh, and 6. Jalianwalla Bagh Memorial.

Aurangabad : in Maharashtra. *Places worth a visit are :* 1. Bibi-ka-Muqbara—the tomb of Aurangzeb's wife which is a replica of the famous Taj, 2. Panchakki (old water-mill), 3. The shrine of Shah Musafir lies nearby, 4. Eight Buddhist caves near the town. Pop. 87,579 (1961).

Anand : town half way between Baroda and Ahmedabad, is the headquarters of the Amul cooperative society producing milk, butter, cheese and baby food. Without keeping any cattle of its own it is an up-to-date and modern unit with 40,000 members spread over an area of 1,300 square miles around it.

Bangalore : Largest city in Mysore and a health resort, is about 3,000 feet above sea-level. *Places worth a visit :* 1. Cubbon Park, 2. Lal Bagh, 3. Band-stand, 4. Race Course, 5. Maharaja's Palace, 6. Tippu's Palace, 7. Venkataramanaswamy Temple, 8. Vidhan Soudha (new Secretariat). Pop. 9,05,134 (1961).

Belur : in Mysore State, noted for its elaborately sculptured temples of the Hoysala period.

Banaras* : town in U.P. on the banks of the Ganges, very sacred to the Hindus and Buddhists alike. It is in fact the religious capital of Hindu India and contains about 1,500 comparatively large temples besides countless minor shrines. It is also reputed to be the oldest city in the country. Pop. 4,71,258 (1961). *Places worth a visit :* 1. Vishwanath Temple, 2. Bharat Mata Temple, 3. Manmandir, with Jaisingh's Observatory, 4. Aurangzeb's Mosque, 5. Gyan Wapi, 6. Nandeswar Kothi, 7. Ramnagar Fort, 8. Banaras Hindu University, and 9. Sarnath, a great Buddhist centre with many architectural remains, is about six miles from Banaras. The Buddha preached his first sermon here.

Barauni : Oil refinery in Bihar for processing crude oil, App. cost Rs. 39 crores. Also a Thermal Power Station.

Batanagar : an industrial town near Calcutta of the Bata Shoe Factory.

Bhadravati : in Mysore State. The Mysore Government's iron and steel plant is located here.

Bhakra-Nangal : twin-towns, round the huge Rs. 170 crore hydro-electric and irrigation project in which the waters of the Sutlej are controlled by dams, and diverted for irrigation and the generation of electric power. A modern fertilizer factory was commissioned on Feb. 22, 1961 at Naya Nangal.

Bhilai : in Durg district of M.P., is the site of an integrated iron and steel plant, set up in the public sector with Russian help.

Bhubaneswar : Orissa's new capital ; city of temples once said to number 7,000. Pop. 38,211. *Places worth a visit :* 1. Lingaraj Temple, 2. Mukteshwar Temple, 3. Parasurameswar Temple, 4. Raj Rani Temple. Nearby are the Jain and Buddhist rock-cut caves of Khandagiri and Udayagiri and Asoka's Rock Edict at Dhuli. Bhubaneswar is on the main S. E. R. line between Waltair and Howrah, about 20 miles from Cuttack and 38 miles from Puri.

Bijapur : town in Mysore State, capital of the old Adilshahi Sultans of Bijapur, is rich with the remains of palaces, mosques and tombs. *Places worth a visit :* 1. Jami Masjid (the greatest mosque in South India), 2. Gol Gumbaz (the tomb of Mahammad Adil Shah and the second largest dome in the world), also called the Whispering Gallery, 3. Mehtar Mahal, 4. Ashar Mahal, 5. Gagan Mahal, 6. Chini Mahal, 7. Mecca Masjid, 8. Tas-Bavry (water-tank), 9. Malik-I-Maidan (Great Gun), 10. Landi-Kasab Gun, 11. Haider Burj (tower), 12. Ibrahim Roza (the tomb and mosque of Ibrahim II), 13. Jala Mandir (reservoir), 14. Chand Bavri (old tank), 15. Granary, 16. Gol Gombaz (Round Dome), 17. Bara Kaman Masjid, and 18. Begum Tank. Bijapur is a railway station on the Gadag-Sholapur section of the Southern Railway. Pop. 78,854 (1961).

Bokaro : in Bihar, site of the Bokaro Steel (public sector) plant, (distinct from Bokaro thermal power station of the D.V.C.) being built with Soviet help.

Bombay : second city and port in India called the Gateway to India, Pop.†: 4,152,056. Area (Greater Bombay) 174 sq. miles. *Places worth a visit :* 1. the Gateway of India, 2. Apollo Bunder, 3. Prince of Wales Museum, 4. the Town Hall, and Central Library, 5. Rajabai Tower and University Building, 6. Victoria Terminus of the Central Railway, 7. the General Post Office, 8. Crawford Market, 9. Brabourne Stadium 10. Chowpatty sands.

* The official name is Varanasi.

† Greater Bombay.

11. Malabar Hill, Hanging Gardens and Kamala Nehru Park, 12. Central Station, Terminus of the Western Railway, 13. Race Course, 14. Bhandarwada Reservoir and Gardens, 15. Victoria Gardens and Albert Museum. Places near Bombay worth a visit: 1. Juhu (sea-side resort), 2. Versova (sea-side resort), 3. Vihar Lake (from which the city gets part of its water-supply), 4. Kanheri Caves (rock-cut caves of Buddhist origin), 5. Jogeshwari Caves, 6. Vajreshwari (temple and hot springs of medicinal property), 7. Mandapeshwar (cave temple), 8. Nirmal (temple and lake), 9. Ambarnath (temple), 10. Pawai Lake and the Technical Institute, 11. Pali (hot springs and small game shooting), 12. Elephanta Caves, 13. Vaitarna (water supply scheme), 14. Aarey Milk Colony, 15. The oil refineries at Trombay. 16. The Atomic Energy Establishment at Trombay. The chief means of conveyance in Bombay are buses, electric railway, taxis and gharis. (See also under *Maharashtra*).

Budh Gaya: near Gaya, in Bihar, a Buddhist centre of pilgrimage. It contains the famous mediaeval Buddhist temple near the Bodhi Tree under which Gautam did penance and attained Enlightenment. Pop. 6,299 (1961).

Burnpur and Kulti: twin towns in which the Indian Iron and Steel Co. Ltd. has its works. Situated near Asansol on the border of West Bengal and Bihar, on the Grand Trunk Road.

Calcutta: until March, 1912, the headquarters of the Indian Government, and now, as then, the commercial capital of India. It is the terminus of three great railways, and the port of an immense river traffic. Though it lies 84 miles from the Bay of Bengal on the River Hooghly, it has a larger foreign trade than any other Indian port, and its enterprising Port Trust has the largest revenue among Indian port authorities. It is the centre of five great industries—jute, tea, hides and skins, coal and lac. Population (1961 census), West Bengal 34.93 millions and Calcutta City (Corporation) 2,927,289. *Places worth a visit*: 1. Victoria Memorial (contains a picture-gallery and museum), 2. the Indian Museum, 3. the Zoological Gardens, 4. the Jain Temple, 5. the Kalighat Temple, 6. Belvedere House (where the British Viceroys stayed when on visit to Calcutta), now the National Library, 7. Raj Bhavan (residence of the Governor of West Bengal), 8. Marble Palace (containing art treasures, property of the Mullik family), 9. Fort William, 10. the Eden Gardens, 11. the town Hall, 12. Haig Market, 13. Dalhousie Square, 14. the Race Course, 15. Dhakuria Lake, 16. the Hindu bathing ghats, 17. Dakshineswar Temple. Places near about Calcutta which are worth a visit are: 1. Bally (holy place), 2. Belur (home of the Ramakrishna Mission), 3. the Botanical Gardens (contains the biggest banyan tree in existence), 4. Diamond Harbour (fort and customs house), 5. Dum Dum (airport of Calcutta).

Kanya Kumari: in Tamil Nadu, is the southern-most tip of India.

It is the place where the Arabian Sea and the Bay of Bengal meet the Indian Ocean. Tourists go to have a view of sun-rise and sun-set.

It is easily reached from Trivandrum by public transport buses or private conveyance.

The spot is sacred to the Hindus and a place of pilgrimage as the reputed abode of Kanya Kumari the virgin goddess to whom the temple there is dedicated.

Cambay: a city of antiquity and an old port in Gujarat. Today it has acquired importance as Lunej oil and natural

gas have been discovered. Drilling with Russian technical help is in progress. (See article on 'Petroleum').

Chandigarh*: now a Union Territory and also capital of Punjab & Haryana; youngest of Indian Capital cities. Chandigarh is situated near Kalka railway station of the Northern Rly.

Chittaranjan: near Asansol, on the border of Bihar and W. Bengal. The industrial colony came into being with the establishment of the broad gauge locomotive and boiler and electric locomotive factory.

Conjeevaram (Kanchipuram): the city of temples, the Banaras of the South, is about 45 miles to the south-west of Madras. It is one of the seven holy cities of India and the only one in the South. The place is divided into three parts, Shiva Conjeevaram, Vishnu Conjeevaram and Pillayar Paliyam, a testimony to the part played by all the main Hindu religious sects in the history of the city. There are over a thousand temples in all. *Places worth a visit*: 1. Kailasnath Temple (over 1,000 years old), 2. Vaikunth Perumal Temple (over 1,000 years old), 3. Ekambareswar Temple (400 years old), 4. Vedaraja Perumal Temple. Pop. 92,714 (1961).

Conjeevaram is on the Renigunta-Chingleput section of the Southern Railway and is easily accessible from Madras via Chingleput.

Coonoor: hill station on the Nilgiri Hills in Tamil Nadu, is about 6,000 feet above sea-level. The climate is mild and genial neither too hot in the summer nor too cold in the winter. The mean day temperature is 64 degrees. *Places worth a visit*: 1. Sim's Park (contains collection of plants), 2. Low's Waterfall, 3. Tiger Rock (hill fort). There are innumerable places for excursion and picnic purposes, e.g. the Droog, the Dolfin Nose, the Lamb's Rock, Laz Falls, Lady Canning Seat, the Ralliah Dam and Catherine Falls. The chief means of conveyance are cars which can be hired.

Coonoor lies on the narrow-gauge Mettupalayam-Ootacamund line of the Southern Railway. It is also connected by road with Ootacamund, and Kotagiri, another hill station. Pop. 30,690 (1961).

Dalmianagar: is situated on the west bank of the river Sone, 350 miles by rail from Calcutta. The Rohtas Industries Limited and Ashoka Cement Limited, manufacturers of cement, paper, sugar, vanaspati, asbestos, cement sheets, etc., are located here providing employment direct and indirect to 60,000 persons.

Darjeeling: hill station in West Bengal, lies on the lower slopes of the Himalayas about 370 miles to the north of Calcutta. It is 7,110 feet above sea-level. The maximum temperature in the summer is about 70 degrees and the minimum in the winter is about 35. The town commands picturesque views including that of Mount Kanchenjunga and on a clear day of Mount Everest. Various sports are available during the season such as fishing, shooting and horse-riding. Darjeeling has also a first-class sanatorium known as Eden Sanatorium. *Places worth a visit*: 1. Government House, 2. Town Hall, 3. Museum, 4. Observatory Hill (from where a magnificent view of Kanchenjunga can be obtained), 5. the Mall, 6. Natural History Botanical Gardens, 7. Birch Hill Park, 8. Senchal Lakes, 9. Ghoom Monastery, 10. Tiger Hill (from where the sun-rise over Everest is generally viewed on clear October mornings).

Darjeeling is the terminus of the meter-gauge Darjeeling-Himalayan section of the N.E. Railway and is about 27 hours' journey from Calcutta. From Siliguri where the visitor has to change, Darjeeling can also be reached by car. Pop. 40,651 (1961).

* Population 89,321 (1961).

Delhi (New): the capital of India and the seat of the Union Government. New Delhi houses the President's House (now called Rashtrapati Bhavan), the Parliament, and the Secretariat. Pop. 2,61,515 (1961).

Delhi (Old): also called Shahjahanabad, the ancient capital of India stands on the Jamuna and is enclosed by a stone wall with seven gates. No city in India contains as many historical remains as Old Delhi. Pop. 9,14,790. (1951). *Places worth a visit:* Red Fort, Jama Masjid, Rajghat (Mahatma Gandhi's Samadhi), Ashoka Pillars, Feroze Shah Kotla, Purana Quila, Humayun's Tomb, Isa Khan's Tomb, Lodi Park and Lodi Tombs, Safdar Jang's Tomb, Kutub Minar, Tughlaqabad, India Gate or War Memorial Arch, Shanti Ghat (Jawaharlal Nehru's Samadhi), Vijay Ghat, (Lal Bahadur Shastri's Samadhi), Rashtrapati Bhavan, Parliament House, National Museum, Shri Lakshmi Narayan Temple, Jantar Mantar or the Observatory.

Delhi is directly connected by rail and air with Bombay, Calcutta and Madras. Delhi also lies on the direct East-West transworld air routes linking India with all the major cities of the world.

Durgapur: in West Bengal, 100 miles from Calcutta, is the site of an integrated iron and steel plant in the public sector, set up with British help. The Durgapur Coke Ovens plant run by the Government of West Bengal, the Durgapur Barrage, the canal system and thermal power house (of the D.V.C.) are also located here. An optical glass unit, Coal Mining Machinery Plant of Heavy Engineering Corpn. Ltd., a Technical Institution and Alloy Steel Plant are fast coming up.

Elephanta Caves: on an island of the same name, about 6 miles from Bombay harbour, are mainly dedicated to Shiva and the sculpture shows that God in His many forms. These belong to the 7-8th century. The main cave, almost 125 ft × 125 ft, is the only impressive structure, and the rest of the island is used more as a picnic spot by holiday makers. There is a launch service as well as a ferry steamer. An official of the Archaeological Department is available on the spot.

The main figure of three-heads, Mahesh Murti, is considered among the world's most impressive sculptures, for its size, beauty and execution.

Ellora Caves: are situated about 15 miles to the north-west of Aurangabad in Maharashtra. The caves which are excavated in the face of a hill are 34 in number and run north to south for a distance of a mile and a quarter. The hill has the shape of a crescent the southern, the centre, and the northern being occupied respectively by Buddhist, Hindu and Jain temples. There are 12 Buddhist caves, 17 Hindu caves and 5 Jain caves. The Hindu caves are more lavishly decorated than others and Kailash temple which is the most impressive is also the biggest cave temple in India. It stands in a court averaging 154 feet wide, 276 feet long with a scrap 107 feet high at the back. Among other notable caves are caves X, XII, XIV, XV, XXIX, XXXIII, XXXIV. It is believed that the Ellora Caves are about a thousand years old. They are reached from Aurangabad by bus or car. Thrishneshwar temple near the caves is an important place.

Fatehpur Sikri: city founded by Akbar in 1569 but abandoned soon after, is situated 23 miles from Agra. The place contains a number of palaces, shrines, mosques built of marble and red sandstone. *The more notable among the monuments are:* 1. Buland Darwaja, the Gateway of Victory, built to commemorate the conquest of Khandesh. It is 176 feet high and is the highest gateway in India. It forms the southern gateway to the most imposing

structure in Fatehpur Sikri, 2. the Jami Masjid, said to be a copy of the mosque at Mecca or Medina, 3. Panch Mahal, 4. Diwan-i-Khas (Hall of Private Audience), 5. Mariam's House, 6. Palace of Jodh Bai, 7. House of Birbal, 8. Elephant Tower and 9. Khas Mahal, Fatehpur Sikri has a railway station, and the city can be easily reached by car.

Gandhigram: about 25 miles from Madurai (South India) is a new colony formed to put Gandhian principles into actual practice in day-to-day life.

Gandhigram (Visakhapatnam): near Waltair in Andhra, is one of the major ports and the site of a ship-building yard and the Caltex Oil Refinery.

Gaya: big town in Bihar, on the Phalgu river, sacred to Hindus and Buddhists alike. The Vishnupada, a temple, built over the foot-print of Vishnu is the centre of the pilgrimage and the Akshaya Vata, the Eternal Banyan tree, is an object of veneration. See also Budha Gaya. Population 1,51,105 (1961).

Gersoppa Falls (see Jog Falls).

Gulmarg: an ideal hill station in Kashmir, about twenty-nine miles from Srinagar, is a little less than 9,000 feet above sea-level. The place boasts of all modern facilities and is particularly noted as a winter playground affording scope for skating, ski-ing, tobogganing, and golf. Round about are ideal places for walks, rides and excursions.

Hardwar: in U.P. on the Inner Himalayas, on the Ganga banks is a great Hindu pilgrim centre. It is situated at the foot of the Siwalik hills on the right bank of the Ganga where the river enters the plains. The object of attraction is the bathing ghat called Hari Ki Payri (step of Hari). Every twelfth year the Kumbh Mela is held, which has a special sanctity. Devout pilgrims proceed from here further up to Rishikesh, and to Badrinath. Pop. 58,513 (1961).

Hirakud: the site of the Rs. 30-crore multi-purpose project across the River Mahanadi in Orissa to provide irrigation facilities and to generate electric power. (See also under 'Irrigation'.)

Hyderabad-Secunderabad*: the twin city linked together by the Hussain-Sagar (lake), is the capital of Andhra Pradesh and is centrally situated for all-India communications. It is a railway junction as well as an important air-port, and stands on the banks of the river Musi. It has many attractions. 1. Char Minar (four minarets) dominates the City with 80 ft. high minarets, built in 1591; 2. Osmania University with its impressive building and Ajanta Pavilion; 3. Town Hall; 4. State Museum and Art Gallery; 5. Salarjung Museum—one of the richest and most varied collections in Asia; 6. Health Museum and Public gardens. Golconda Fort forms one of the suburbs of Hyderabad. Many new industries are coming up in the city. Pop. 12,51,119 (1961).

Imphal: north-east frontier town and capital of Manipur. It is celebrated for its Manipuri dance and handloom products. Pop. 67,717 (1961).

Jaipur: capital of Rajasthan State, is a well laid-out modern city. Jaipur pottery, brass ware, sculpture, ivory and sandalwood work and jewellery have enjoyed a great reputation from ancient times. Pop. 4,03,444 (1961). *Places worth a visit:* 1. Maharaja's Palace, 2. Jai Singh's Observatory, 3. Amber (ancient capital), 4. Hawa Mahal, 5. Palace Armoury, 6. Cenotaphs of the Queens, 7. Galta (place of pilgrimage) and Ghat, 8. School of Arts, 9. Public Library, 10. Transport Gardens, 11. Museum.

* Secunderabad is the headquarters of the South-Central Railway.

Jaipur is on the metre-gauge line of the Western Railway between Ahmedabad and Delhi.

Jetsar : near Suratgarh, in Rajasthan, site of another mechanised farm about 30,000 acres.

Jog Falls : also known as Gersoppa Falls in Mysore State, are one of the highest waterfalls in the world. The river Sharavati takes a big leap down a steep rock from a height of 830 feet. The breadth of the stream here is 230 feet and in four separate cascades known as the Raja, Roarer, Rocket and La Dame Blanche, it takes a magnificent leap. The best time to see them is early December.

Junagadh : in Gujarat, is situated below the celebrated Girnar Hill and is one of the most ancient cities in India. The temples on the hill are noted for their architecture and delicate painting. On the way to Girnar is a rock with an Asoka edict. Pop. 74,298 (1961).

In Junagadh is the famous Gir Forest—the only place in Asia where lions are found.

Jwalamukhi : in the Kangra Hills where gas has been discovered. Drilling is in progress with Rumanian technical help. (See article on 'Petroleum'.)

Kangra Valley : famous for its picturesque landscapes and historic temples, lies in Himachal Pradesh. Semi-urban hill stations are Kangra and Dharamsala. *Places worth a visit in Dharamsala are* : 1. Bhagsunath Water Springs ; 2. State Quarries ; 3. Himalayan Snow View. The chief means of conveyance are cars and buses. There is also a dak bungalow at Dharamsala where visitors can stay. To get to the Kangra Valley a visitor has to change at Pathankot into the narrow-gauge railway which runs to Nagrota. Dharamsala can also be reached from Pathankot by car.

Kanheri : near Bombay, is famous for its Buddhist caves dating back to the 1st century A.D. It is about twenty miles from Bombay.

Kashmir : unsurpassed for the beauty of its mountains, lakes and valleys is a part of the State of Jammu and Kashmir, situated in the far north of India. Its capital Srinagar on the Jhelum is 5,000 ft. above sea-level and famous for its shawls and carpets and the exquisite beauty of its wood-work, rich embroidery and papier-mache articles. Its fruits and vegetables are equally well-known. Well-furnished, luxurious house-boats moored along the winding Jhelum or in the Dal Lake provide all necessary comforts amidst gorgeous natural surroundings. The normal recreations include Shikara rides on the lakes and canals, mountain-climbing, big and small game hunting, golf, fishing and swimming. Gulmarg, Sonamarg and Pahalgam are favourite holiday resorts in the neighbouring mountains and can be reached by motorable road. The way to Srinagar is *via* Pathankot, which is a railway terminus. From Pathankot one goes to Srinagar by road passing Jammu on the way. There is a regular air service from Delhi to Srinagar. *Places worth a visit* : 1. The Moghul Gardens, like *a.* Shalimar, *b.* Chashmashahi, *c.* Acchabal, *d.* Nishat ; 2. The lakes like *a.* Dal Lake, *b.* Wular Lake, *c.* Anchar Lake, *d.* Manasbal Lake and so on ; 3. Places of historical and religious interest like *a.* Martand temple, *b.* Pandranathan temple, *c.* Bhaumazu caves, *d.* Avanti Pura, *e.* Pari Mahal and *f.* Sankaracharya Hill.

Khajuraho : in Chhattarpur in Madhya Pradesh, is famous for its group of highly ornate mediaeval Hindu temples. From the nearest railway station Harpalpur on the Jhansi-Manikpur line, it is about 60 miles by motorable road. It has dak bungalows and circuit house rooms.

Kiriburu : iron ore mines, in the Bonai range of Keonjhar and Singhbhum districts being developed with USA's ADF and Japanese help.

Kirloskarvadi : in Maharashtra, is an industrial colony established over 50 years ago, where agricultural implements and a variety of engineering goods have been manufactured.

Kodaikanal : famous hill station on the Palni Hills in Tamil Nadu. It is about 7,000 feet above sea-level and has a temperate climate. The place affords plenty of scope for such recreations as walking, hiking, boating, fishing, hill climbing and golf. For the more adventurous there is big game hunting. Kodaikanal is the delight of the gardener and flowers are in bloom all the year round. *Places worth a visit* : 1. the lake skirted by a three-mile road ; 2. the water falls like a Fairy Falls, *b.* Silver Cascades, *c.* Bear Shola Falls, *d.* Glen Falls, *e.* Pamber Falls ; 3. There are view points like *a.* Coaker's Walk, *b.* Pillar Rocks, *c.* Prospect Point, *d.* Vambadi Shela Peak, *e.* Dolphin's Nose ; 4. the Solar Observatory.

Konarak or Konark : in Orissa, is a huge Temple of the Sun also called the Black Pagoda. It is remarkable both as an example of ancient Indian architecture and sculpture and of engineering skill. Konarak is about 50 miles from Puri, 40 miles from Bhubaneshwar. The road is open from November to May.

Korba : in Madhya Pradesh is the site of a new coal mine and a thermal station from which the Bhilai Steel Project gets most of its power supply. Coal from Korba will also be used in Bhilai.

Kosi : the Rs. 45-crore multi-purpose project in Bihar for flood protection, irrigation and electric power. The barrage on the river is about 30 miles below Chatra in Nepal. (See under 'Irrigation'.)

Koynanagar : in Satara district, Maharashtra, is 30 miles from Karad station on the Southern Railway. Here the turbulent waters of the Koyna are controlled and diverted through an underground tunnel on the other side of the hill for generating electricity.

Kulu Valley : well-known for the variety of its scenery, fruit orchards and places of historical interest is situated in Himachal Pradesh, north of Simla. It is ideal for hiking and trout fishing. The important part of the valley from the tourist's point of view is the road which runs from Pathankot or Nagrota the rail-heads into the valley. The summer is never uncomfortably hot. The main centres of the Kulu Valley are : 1. Kulu or Sultanpur, the principal town, about 4,000 feet above sea-level. It is the main shopping centre and has a dak bungalow, and a number of rest-houses ; 2. Raison, 8 miles from Sultanpur and 4,700 feet above sea-level. The available sports are golf, tennis and swimming. Mayflower and the Shacks are two hotels ; 3. Katrain, is in the widest part of the Valley, 12 miles from Sultanpur and 4,800 feet above sea-level ; 4. Naggar, summer headquarters, is 5,800 feet above sea-level ; 5. Manali, the head of the valley and terminus of the motor road, is 23 miles from Sultanpur and is situated amid typical Alpine scenery. Accommodation for visitors is available at Sunshine Orchards, Departmental rest houses and Mission Hospital. Pathankot is the rail-head for Kulu. From Pathankot, Kulu is reached by bus or car, or from Pathankot to Nagrota by metregauge railway and from there by bus to Kulu.

Lonavla-Khandala : in Maharashtra, lies in the heart of the Western Ghats. Hill forts associated with Maratha rule are in the vicinity. The Karla, Bhedsa and Bhaja caves, 10 miles from Lonavla, are an added attraction (see also under Poona District).

Lucknow : the city of gardens is the capital of U.P. It is full of places of historical interest and of architectural beauty and is generally regarded as the cultural capital

of North India. It is well-known for its pottery, copper and brass-ware, wood and ivory carvings and gold and silver embroidery on cloth, and rich perfumes. Pop. 595,440 (1961). *Places worth a visit*: 1. Great Imambara, 2. Small Imambara, 3. Tombs of Wajid Ali Shah and his Begum, 4. Kaiser Bagh Palace, 5. Chattar Manzil, 6. Dilkusha Palace, 7. Moti Mahal, 8. Machi Bhavan Palace, 9. Jumma Masjid, 10. Charbagh, 11. Alambagh, 12. Sikander Bagh, 13. Musa Bagh, 14. Wingfield Park, 15. Residency, 16. Havelock's Tomb, 17. Clock Tower, 18. Musuem, 19. Observatory, 20. Iron Bridge. Lucknow is a big junction on the Northern Railway.

Madras: the third largest city in the subcontinent and the capital of Tamil Nadu. Pop. 17,29,141 (1961 census). *Places worth a visit*: 1. Fort St. George (contains the oldest Protestant church in the country where Clive was married), 2. High Court, 3. Light House, from the top of which one can get a panoramic view of the city, 4. Marina. The Marina is one of the most beautiful promenades in the world: sea-bathing is possible at certain points, 5. The Museum, 6. Connemara Library, 7. the Zoo, 8. the Observatory, 9. Moore Market, 10. Parthasarathy Temple, 11. Mylapore Tank and Kapaleswar Temple, 12. St. George's Cathedral, 13. St. Thomas Mount, 14. Race Course, 15. The Integral Coach Factory at Perambur, where passenger coaches are made, 16. Adyar, where the headquarters of the Theosophical Society are located.

The ruins of the Gingee Fort famous in the days of the Vijayanagar Empire are about 95 miles from Madras and can be reached by rail and road. The seven Pagodas of Mahabalipuram are 35 miles by road from Madras and can also be reached by road from Chingleput Railway Junction.

Madurai: the second biggest city in Tamil Nadu, is a great religious centre, a seat of Tamil literature and Hindu temple art. The silk-weaving and textile industries of Madurai are also noteworthy. *Places worth a visit*: 1. The Great Temple, actually made up of two temples one of Meenakshi and the other of Shiva, 2. Tirumala Nayak's Palace, 3. Gandhi Museum and Gandhigram. Pop. 4,24,810 (1961).

Mahabaleshwar: a hill station in Maharashtra. Can be reached from Poona by road.

(See under Satara District.)

Matheran: the nearest hill station to Bombay is 2,650 feet above sea-level. In a walk round the eighteen-mile circumference of the hill the visitor can reach no fewer than thirty-three points of which the following deserve mention: 1. Garbut Point, 2. Panorama Point, 3. Porcupine Point, 4. Louisa Point, 5. Chowk Point, 6. Alexandra Point, 7. Belvedere Point, 8. Echo Point, 9. Monkey Point. At every one of these points the visitor will find comfortable seats, shady trees and fine views. Among other places which are worth a visit are: 1. Charlotte Lake, 2. Paymaster Park, 3. Band-stand, 4. Castle Hill Tower, 5. Race Course. The chief recreations are walking and riding. Rickshaws, *munchils* and horses are the chief means of conveyance.

Matheran is reached from Neral Station on the main railway line between Bombay and Poona. From Neral there is a light railway to Matheran which is about one-and-a-half-hour's journey. Alternatively one can do the journey by rickshaw or pony by previous engagement at Matheran.

Mathura-Brindavan: in U.P. is an important place of pilgrimage for Hindus, because of its associations with Shri Krishna. Near the railway station is an archaeological museum which houses unique relics of Kushan art. Six

miles from Mathura is Brindavan. *Places worth a visit*: 1. Govind Dev Temple, 2. Gopinath Temple, 3. Ranganath Mandir.

There are travellers' bungalows. Brindavan is accessible by railway or road from Mathura. Pop. 125,258 (1961).

Mussoorie: A hill station in U.P. lies 18 miles to the north of Dehra Dun. It is 6,580 feet above sea-level. The town has excellent water-supply, electric lighting system, hospitals, nursing homes and some of the best schools in India both for boys and girls. Hiking and going on excursion or picnic are among the main recreations. *Places worth a visit*: 1. The falls like a. Bhatta Falls, b. Kamptee Falls, c. Hearsay Falls, d. Mossy Falls, 2. Wimper's Tank, 3. Band-stand. Mussoorie is reached from Dehra Dun by car or bus and is about two hours' journey. Pop. 9,849 (1961).

Mysore (State): Mysore is a picturesque land of forest and mountain presenting the most diversified and beautiful scenery. In the southern forests are found wild elephants for the capture of which khedda operations are undertaken from time to time. Tigers, leopards, bears and bisons are also numerous. *Places worth a visit in Mysore State*: 1. The Chenna Kesava Temple at Belur, 24 miles from Hassan, 2. Sivasamudram Falls on the Cavery River, 3. Hoysaleswara Temple at Halebid, 4. Gersoppa Falls also called the Jog Falls on the Sharavati River, the most famous beauty spot in Mysore. The falls are higher than Niagara, 5. Kolar Gold Fields, the biggest in India worked by electric power, 6. Nandidurg, a hill station near Bangalore, and the summer residence of Tippu Sultan, 7. Srirangapatnam of historical and religious interest as the capital of Tippu and as the city of many temples, 8. Shravanabelgola, the great Jain religious centre with the huge monolith Gomateshwara and the city of Bangalore and the town of Mysore.

Mysore (City): second city in the State. It attracts great crowds twice a year namely the Maharaja's birthday and the Dasarrah. *Places worth a visit*: 1. The palaces like the Maharaja's Palace, Jaganmohan Palace and so on, 2. Chamundi Hill, with the Bull and the Temple, 3. Zoological Gardens, 4. Silk Factory, 5. Sandalwood Factory, 6. Krishnarajasagar Dam and the Brindavan Gardens, among the most beautiful in the world, about 12 miles from Mysore. Mysore is one of the termini of the Southern Railway. Pop. 2,53,865 (1961).

Nagarjunasagar: See under VIJAYAPURI.

Naini Tal: hill station is about 6,350 feet above sea-level. Among the principal recreations are hiking, boating and yachting on the lake around which the town stands, and fishing and riding. *Places worth a visit*: 1. Cheena Peak, 2. Land's End, 3. Lariya Kanta Peak, 4. Sher-ka-Danda Peak, 5. Tiffin Top or Dorothy Seat, 6. Camel's Peak or Deopatta Peak. Naini Tal is 22 miles from Kathgodam railway station which is connected with Bareilly and Mathura. From Kathgodam one goes by bus or car to Naini Tal which is 22 miles away. Pop. 14,995 (1961).

Nalanda: in Bihar, approachable from Patna by rail or motor, contains a group of ruined Buddhist temples and monasteries and a small local museum. It was the seat of an ancient Buddhist university.

Nasik: in Maharashtra and 117 miles from Bombay on the N.E. line of the Central Railway, is a place of pilgrimage for Hindus and is famous for Buddhist rock-cut temples of the first century B.C. and later. Pop. 1,31,103 (1961). The golf links at near-by Deolali are an added attraction.

Nepanagar : in M.P. is the site of the only newsprint factory in India. (See also 'Government Industrial Undertakings'.)

Neyveli : in South Arcot District, in Tamil Nadu, about 150 miles from Madras, the site of lignite mines and centre of industrial development.

Ogalewadi : near Karad, near the confluence of the Krishna and the Koyna (Dist. Satara).

Ogalewadi is the glass-town founded by one of the pioneering industrialists, Mr. Ogale. The activities include enamelling, making of hurricane lanterns, safety stoves and electrical equipment.

Ootacamund : hill station in Tamil Nadu, stands 7,500 feet above sea-level on the Nilgiris. *Places worth a visit* : 1. Botanical Gardens, 2. Race Course, 3. Assembly Room, 4. Dodda Betta, the highest peak in the Nilgiris, 5. Pykara Hydro-Electric Dam which is about 18 miles from Ootacamund. Ootacamund is the terminus of the Nilgiri mountain railway and 6. Kundah Hydro-electric Scheme which includes many lakes, dams and power houses. Pop. 50,140 (1961).

Pachmarhi : hill station, was summer capital of Madhya Pradesh, lies on the Mahadeo hills of the Satpura Range and is about 3,500 feet above sea-level. *Places worth a visit* : 1. Bee Dam, 2. Mahadeo Caves, 3. Dhupgarh, highest point in the Satpuras, 4. Dorothy Deep Falls, 5. Duchess Falls, 6. Lansdowne Hill, 7. Nilphur springs, 8. Waters Meet, 9. Big Falls, 10. Pansy Pool, 11. Twipram Pool, 12. Saunder's Pool, 13. Pandava Caves. Pachmarhi is reached from Pipariya Station on the main Central Railway line from Bombay to Jabalpur. From Pipariya, Pachmarhi is 32 miles. There are facilities for swimming, trekking and riding. Pop. 653 (1961).

Padmanabhapuram : in Kerala, is the ancient capital of the former Travancore State. *Place worth a visit* : Palace.

Pandharpur : town in Sholapur District in Maharashtra. It stands on the Bhima river and is one of the most frequented places of pilgrimage in Maharashtra. The centre of devotion is the temple dedicated to Vithoba, an incarnation of Vishnu. Fairs are held annually in honour of the God. Pop. 45,421 (1961).

Perambur : a suburb of Madras where an integral railway coach factory is situated.

Pimpri : near Poona, is the place where the Hindustan Antibiotics factory is located. It manufactures penicillin. (See also under 'Government Industrial Undertakings'.)

Pipri : in Mirzapur District in U.P. is the site of the Rs. 46-crore Rihand dam across the Rihand, for the generation of power and for irrigation.

Poona : in Maharashtra and 120 miles from Bombay, has many historical buildings and one of the best race courses in India. *Places worth a visit are* : Shanwar Wada, the National Chemical Laboratory, the Defence Academy and the Central Water and Power Research Station at Khadakvasla. Other show-places near Poona are : Sinhagad and Purandar. The factory which manufactures antibiotics at Pimpri is worth a visit. See also Poona District. Pop. 7,21,896† (1961).

Porbandar : in Gujarat, is the birth-place of Mahatma Gandhi and an attractive summer resort. Pop. 75,081 (1961).

Prabhas Patan : in Gujarat, is the site of the famous Somnath Temple, which was destroyed and rebuilt several times.

Puri : (*Jagannath Puri*) : famous for the Jagannath Temple, is a coastal town in Orissa. Other places worth a visit are the monastic establishments (maths). Fifty miles from Puri is Konarak, the Sun Temple. Pop. 60,815 (1961).

Rameshwaram : this holy town in Tamil Nadu is built on an island in the Palk Straits. It contains one of India's most venerated temples, perhaps the finest example of South Indian architecture. It is in the form of a quadrangular enclosure 650 ft. by 1,000 ft. The temple is renowned for its vast pillared corridors nearly 4,000 ft. long. It is near the tip of the Indian peninsula. Pop. 6,801 (1961).

Ranchi : hill station and summer resort of Bihar, noted for its picturesque scenery and fine roads. It is the site of heavy machine building plants. Pop. 1,40,253‡ (1961).

Rourkela : in Orissa State, about 250 miles from Calcutta on the main line to Nagpur, is the site of an Iron and Steel Plant in the public sector set up with German help. In addition, a special fertilizer plant has also been erected here.

Sanchi : small village near Bhopal in Madhya Pradesh, famous for the Buddhist stupa which is the largest and the best preserved in India. Sanchi is on the main Central Rly. near Bhopal.

Santiniketan : in West Bengal, is the home of the famous Visva Bharati, the international university founded by Tagore. *Places worth a visit are* : Rabindra Bhavan (the poet's residence) where his personal belongings, manuscripts, etc. are on display and the poet's mud hut where he wrote many of his famous books.

The place is 91 miles from Calcutta on the Eastern Railway and 2 miles from Bolpur Station.

Seringapatam : or Srirangapattana in Mysore State, 9 miles by road from Mysore city was the ancient capital of Tipu Sultan. It is situated on an island on the Kaveri. It has the Sultan's fort, mosque and palaces. There are also many old temples. Pop. 11,423 (1961).

Sevagram : near Wardha in Maharashtra is the village where Mahatma Gandhi founded his ashram. It has been the home of many Gandhian institutions.

Shatrunjaya Hills : Shatrunjaya, near Palitana in Saurashtra, is also known to the Jains as Siddhagiri or Siddhachala or the Hill of the Perfected Ones. It is the most sacred place (*tirtha*) of Shvetambara Jains. There are a great number of temples in groups on *touks* or summits.

Shillong : is the capital of the Assam Government. Thirty-six miles from here is Cherrapunji, the wettest place in the world. Pop. 72,438 (1961).

Simla : the former summer capital of the Government of India and the Government of the Punjab, it is situated on a spur of the Himalayas at a height of 7,200 feet. Among the recreations of the place are hiking, riding and shooting. The roads are excellent. *Places worth a visit* : 1. President's House, 2. Race Course, 3. Jakko Hill, 4. Observatory Hill, 5. Prospect Hill, and 6. Mashobra-Mahasu, seven miles away. All through the scenery is superb, with mountain peaks or luxuriant foliage. Simla is now the capital of Himachal Pradesh. Pop. 42,597 (1961).

Sindri : the site of the big fertilizer plant in Bihar.

Somnath : see under Prabhas Patan.

Sravanabelgola : in Mysore State, is noted for its Jain temples and the colossal statue of Gomatesvara which is 65 ft. high, the tallest monolithic in the world. It was erected in 983 A.D.

† Including Poona Cantt. & Kirkee Cantt.

‡ Including Dorenda.

Suratgarh : in Rajasthan is the largest single mechanised agricultural farm (30,000 acres) utilising complete set of machinery and equipment presented by U.S.S.R.

Tanjore : in the delta of the Cauvery river in Tamil Nadu is noted for its temples and palaces. It was the capital of the Cholas. *Places worth a visit :* 1. the temple of Brihadeshvara built by Raja-Raja the great, 2. Naik's Court, 3. Maratha Court (the two together are often called the Palace in Tanjore).

Tanjore is reached from Madras by the Southern Railway. Pop. 1,11,099 (1961).

Udaipur : in Rajasthan, is a city of lakes with island palaces. Seventy miles from Udaipur is Chittorgarh, the abandoned capital of Mewar, famous for its Tower of Victory. Pop. 1,11,139 (1961).

Ujjain : on the Sipra in Madhya Pradesh, is one of the seven cities sacred to the Hindus. Also known as Avanti. The Oriental Museum has many valuable manuscripts and pieces of sculpture. Is supposed to be the seat of King Vikrama. Mahakaleshwar temple is an attraction of pilgrimage. Pop. 1,44,161 (1961).

Vallabh Vidyannagar : near Anand, (Dist. Kaira) is the seat of Sardar Vallabhbhai Patel University, with arts & science, engineering, agricultural teachers' training, colleges on the extensive campus. Some industrial units (prestressed concrete, electrical wire) are also working in the vicinity. The township is on an ideally laid out plan. A railway (Western) station with the same name is nearby ; but Anand is more convenient for this University town.

Vijayapuri (East & West) : on either side of the Nagarjunasagar dam across the River Krishna, 90 miles from Hyderabad.

The great Buddhist sage and philosopher Nagarjunacharya lived and taught here. The University was known as Nagarjunkonda. Extensive excavations have brought to light important pieces of sculpture, housed in a big museum nearby.

Walchandnagar : In Poona district, is an industrial colony, with extensive cane cultivation on mechanised scale, sugar and alcohol production, huge workshop for manufacturing sugar making machinery, plastic buttons and dairy products.

HOTELS

Here is a list of some leading Western style hotels.

AGRA : Grand Hotel ; Hotel Clarks Shiraz.

AHMEDABAD : Ritz Hotel.

AURANGABAD : Aurangabad Hotel.

BANGALORE : Madras Woodlands Hotel ; Shilton Hotel ; West End Hotel.

BOMBAY : Airlines Hotel ; Ambassador Hotel ; Hotel Nataraj ; Hotel Waldorf ; Ritz Hotel ; Hotel Bombay International ; Sea Green Hotel ; Sun-N-Sand ; Taj Mahal Hotel ; West End ; Hotel Palace Ajanta.

CALCUTTA : Carlton Hotel ; Great Eastern ; Hotel Majestic ; Hotel Minerva ; Lytton Hotel ; Oberoi Grand Hotel ; Russell Hotel ; Spences Hotel.

CAPE COMORIN : Cape Hotel.

COONOOR : Ritz Hotel.

DARJEELING : Oberoi Mount Everest.

DELHI (NEW DELHI) : Airlines Hotel ; Ashoka Hotel ; Claridges Hotel ; Hotel Ambassador ; Hotel Janpath ; Lodhi Hotel ; Hotel Marina ; Hotel Metro ; Oberoi Intercontinental ; Oberoi Swiss ; Rajdoot Hotel.

HYDERABAD (SECUNDERABAD) : Ritz Hotel.

JAIPUR : Jai Mahal Palace Hotel ; Rajasthan State Hotel ; Rambagh Palace Hotel.

JAMSHEDPUR : Tisco Hotel.

KODAIKANAL : Carlton Hotel.

MADRAS : Airlines Hotel ; Hotel Claridges ; Connemara Hotel ; Hotel Ashoka ; Hotel Dasaprakasha ; Hotel Imperial ; Hotel Savoy ; Queen's Hotel ; Woodlands Hotel.

MAHABLESHWAR : Ritz Hotel.

MATHERAN : Lord's Central Hotel.

MOUNT ABU : Mount Hotel.

MUSSOORIE : Hakmans Grand Hotel ; Hotel Roam Ohe ; Savoy Hotel.

MYSORE : Hotel Krishnarajsagar ; Hotel Ritz.

NAINITAL : Grand Hotel ; Hotel Metropole ; Swiss Hotel ; Waldorf Hotel.

OOTACAMUND : Hotel Cecil ; Hotel Dasaprakasha ; Savoy Hotel.

PANAJI : Mandovi Hotel.

PONDICHERY : Hotel Grand D' Europe.

RANCHI : Mount Hotel.

SIMLA : Oberoi Cecil ; Oberoi Clarkes.

SRINAGAR : Oberoi Palace Hotel ; Nedous Hotel.

THEKKADY : Aranya Niwas Hotel.

TRIVANDRUM : Mascot Hotel.

UDAIPUR : Lake Palace Hotel ; Laxmi Vilas Palace Hotel ; Rajasthan State Hotel.

UJJAIN : Grand Hotel.

VARANASI : Hotel De Paris.

Besides the hotels in different places there are tourist bungalows in Bijapur, Bhubaneswar, Gaya, Khajuraho, Konarak, Madurai, Mahabalipuram, Mandu, and Tanjore.

TOURIST TRAFFIC

TOURIST ARRIVALS IN INDIA-1967*

The number of Tourists who arrived in India during 1967 was 1,79,565 (1.89 lakhs).

North America : Canada 3,001 ; U.S. 43,041 (41,741).

South America : Mexico 451 ; others North & South America 1,419.

Western Europe : Austria 831 ; Benelux 2,833 ; France 7,224 ; Germany 8,101 ; Italy 2,550 ; Scandinavia 3,366 ; Switzerland 3,017 ; U.K. 27,309 ; other Western Europe 1,282. Tourists from Western Europe in 1968 : 63,930.

Eastern Europe : Czechoslovakia 778 ; U.S.S.R. 1,959 ; other Eastern Europe 2,452.

Africa : Kenya 4,209 ; Malawi 205 ; Republic of South Africa 1,429 ; Tanzania 2,453 ; Uganda 1,685 ; other Africa 1,797.

East Asia : Afghanistan 2,067 ; Ceylon 20,116 ; Japan 5,315 ; Malaysia 7,138 ; Philippines 693 ; Thailand 1,110 ; other East Asia 5,994. Total in 1968 : 46,590.

West Asia : Aden 2,212 ; Persian Gulf countries 2,776 ; Iran 1,290 ; other West Asia 1,983.

Australasia : Australia 6,351 ; New Zealand 629 ; other Australasia 199. Tourists from Australasia in 1968 : 10,000.

DEVELOPMENT OF TOURISM

The Third Plan for development of tourism included an allocation of Rs. 8 crores—Rs. 3.5 crores in the Central Sector and Rs. 4.5 crores in the State Sector.

* Figures within brackets are for 1968. Note : In 1968 there was an increase in tourist arrival of 18.5% from Canada, 29% from South America and 52% from Mexico as compared to 1967.

The Government of India has set up the India Tourism Development Corporation in the public sector for promoting tourism and providing facilities for tourist traffic in the country. For more details about the corporations see article on "All India Corporations".

Fourth Plan : A sum of Rs. 25 crores has been tentatively allocated for the development of tourism in the

Fourth Plan. Of this Rs. 5 crores have been set apart for the recently set up India Tourism Hotel Corporation and the India Tourism Corporation.

The India Tourism Development Corporation proposes to open shortly "Duty Free Shops" at Bombay, Delhi and Calcutta. A duty-free shop is a tourist facility provided by many countries at international airports.

DEFENCE SERVICES

Chief of the Army Staff, General S. H. F. J. Manekshaw.

Chief of the Air Staff, Air Chief Marshal P. C. Lal.

*Chief of the Naval Staff, Admiral A. K. Chatterji.**

THE supreme command of all the Armed Forces of the Indian Republic is vested in the President.

The Ministry of Defence has become the central agency for formulating and obtaining policy decisions of the Government of India on defence matters and for transmitting them to, and seeing to their implementation by the three Defence Services Headquarters.

A National Defence Council has been set up with the Prime Minister as its Chairman.

The functions of the Council are to (i) take stock of the situation and arrangements for national defence, from time to time, and advise Government on matters relating to defence, (ii) assist in building up and suitably guiding the national will to fight the aggressor, (iii) suggest to the Central Citizens' Committee such measures as may be considered necessary for the utilisation of public participation in national defence, and (iv) advise Government generally on such other matters as may be helpful in prosecuting the fight against the aggressor.

The total defence outlay on revenue and capital account for 1968-69 is estimated at Rs. 1,015.26 crores as against the revised estimates of Rs. 970.14 crores during 1967-68.

DEFENCE ORGANISATION

Each Service has been placed under a separate and independent head, namely the Chief of the Army Staff, Chief of the Naval Staff and Chief of the Air Staff.

The task of co-ordination of the activities of the three Services has devolved on the Defence Ministry for which a net work of committees has been established at different levels.

At the top is the Defence Committee of the Cabinet. All important policy questions relating to defence are decided by this Committee, which is presided over by the Prime Minister.

The Defence Minister is responsible to Parliament for all matters relating to the Defence Services, including appropriation and allotment of funds, correlation of all civil and ministerial activities for purposes of defence and control and direction of research policy.

The Ministry of Defence is responsible for work connected with the three Services and Inter-Service Organisations, the Department of Defence Production, the Department of Defence Supplies, the Research and Development Organisation and the Border Roads Development Board.

There are a number of Inter-Services organisations, directly administered by the Defence Ministry, dealing with matters of common concern to the three Services. Some of them are the National Cadet Corps, the National Defence College, the Defence Services Staff College, the

National Defence Academy, the School of Foreign Languages, the Directorate-General of Armed Forces Medical Services, the Resettlement Directorate, the Indian Soldiers', Sailors' and Airmen's Board, the Combined Inter-Services Historical Section, the Directorate of Military Lands and Cantonments, the Joint Cipher Bureau and the Directorate of Public Relations.

There is a separate Department of Defence Production in the Defence Ministry to direct, co-ordinate and strengthen the production base for building a sound defence system.

A Research and Development Council with the Defence Minister as Chairman, formulate defence science programmes. Apart from the Defence Minister, the other members of the Council are the Minister of State in the Ministry of Defence (Vice-Chairman), the Defence Secretary, the Secretary for Defence Production, the Scientific Adviser to the Defence Minister, the Director-General of C.S.I.R., the Chiefs of Staff of the Army, Navy and Air Force, the Director-General of Armed Forces Medical Services, the Financial Adviser (Defence), the Chief Controller of Research and Development and the Director-General of Inspection. The Council has under it the Defence Research and Development Organisation, headed by the Scientific Adviser, who is assisted by the Chief Controller and the Chief Scientist.

The Defence Minister's Production Committee forms part of the higher defence control evolving a co-ordinated policy in regard to the manufacture of military stores and equipment. It has under it the Department of Defence Production, for the overall production effort for meeting the requirements of the Services by the maximum utilisation of the existing capacity and creating additional capacity in the Ordnance Factories. The Director-General of Ordnance Factories, the six public sector undertakings and two departmental undertakings come under the Department of Defence Production. The Directorate-General of Inspection is responsible for the inspection of all stores for which orders are placed with the Ordnance Factories, other defence and public undertakings and private trade.

RESEARCH & DEVELOPMENT

The Research and Development Organisation which is closely associated with the Production Organisation includes technical establishments dealing with weapons, ammunition, military explosives, metallurgy, electronics and optical instruments. Whereas research is carried on in the laboratories, development work is concentrated at the various technical establishments scattered all over the country.

The Institute of Armament Technology provides facilities for a comprehensive scientific study and research in the performance of weapons and equipment.

* As at the time of going to press.

There are at present about 30 establishments, major and minor, under the R. and D. Organisation, catering to the needs of the Armed Forces. Among the new research units are the Institute of Nuclear Medicine, the Institute of Physiology, the Food Research Laboratory, the Solid State Physics Laboratory, the Electronics Research Laboratory and the Institute of Work Study.

A Psychological Research Directorate of the Science Organisation conducts research in the assessment of human personality so that the right type of officers may be selected for the Armed Forces.

There are two major electronic Development Establishments in the country dealing with communication equipment, tele-communication line equipment and radars. A beginning has been made on a third establishment for the development of missiles.

A Defence Science Service has been instituted to include all civilian scientists engaged in research, development, inspection or teaching in any of the three Services or in the Ministry of Defence.

Theoretical training for the engineering profession to those already receiving practical training, is now being given at defence installations in practically all parts of the country to prepare students for the Associate Membership examinations of the Institution of Engineers (India), the Institution of Tele-Communication Engineers and the Aeronautical Society of India.

The Defence Production Board has been set up to examine and recommend to Government plans for defence production, production of new items and stock-piling of raw materials.

ORDNANCE FACTORIES

The Production Organisation which has under it 26 Ordnance Factories, is so designed as to achieve self-sufficiency in respect of stores required by the three Services and has made continuous efforts to establish production of items hitherto imported.

The Ordnance Cable Factory for the manufacture of field cables for the Army started functioning in September 1963, the New Explosives Factory—in December 1964. The Heavy Vehicles (Tank) Factory has gone into production. The first Indian-made medium tank, 'Vijayanta' rolled out of the factory on Dec. 29, 1965. Regular production has been established in the factory. Of the five more Ordnance Factories to be set up, the Small Arms Ammunition Factory, went into production in Oct. 1964, with U.S. aid, much ahead of schedule. Another factory the Ordnance Factory, Tiruchirapalli was inaugurated by the Prime Minister on July 3, 1966. Two other new factories have been set up.

Apart from substantially augmenting the manufacture of established armaments and equipment, the Ordnance Factories took up the production of several new items during 1963-64. Significant amongst these are a 7.62 m.m. semi-automatic Ishapore rifle and its ammunition, a new heavy mortar with a longer range and its ammunition, new types of tank ammunition, new anti-tank ammunition, an anti-aircraft gun and its ammunition, improved carbines to replace sten-guns, and modified light machine-guns and bolt-action rifles to take the new rimless 7.62 ammunition.

A light mountain gun, with a higher range, has been successfully developed and its production started. A new plant has been set up at the Cordite Factory for the manufacture of semi-solvent propellants for rockets and commissioned, and so also a plant at another Ordnance Factory for a new type of ammunition for the Air Force.

To ease the transport problems of the Army, about 8,000 three-ton Shaktiman trucks, with an indigenous content of about 70 per cent had been manufactured in the Ordnance Factories by the end of March 1967. In addition, 16,166 one-ton Nissan carriers and 5,652 Nissan jeeps, with an indigenous content now of 42.23 and 30.10 per cent respectively, have rolled out of the assembly lines so far.

The production of conventional arms, snow and ski equipment, winter and cotton clothing supply-dropping parachutes, line-gear and saddlery items has also been greatly stepped up.

Over the years, the value of production in the Ordnance Factories has jumped from about Rs. 5 crores in 1947-48 to an estimated Rs. 112 crores in 1967-68.

HINDUSTAN AERONAUTICS LIMITED

(See under article "Government Industrial Undertakings").

A.M.D. AND A.I.L.

The Aircraft Manufacturing Depot, set up at Kanpur in 1960 under the Air Force for the manufacture of the Avro-748—a medium twin-engined, turbo-prop, pressurised and air-conditioned transport aircraft, capable of short take-offs and landings, with ability to operate from unprepared surfaces—was in 1963 made a departmental undertaking under the direct control of the Department of Defence Production.

This factory has so far (Dec. 1968) delivered nine aircrafts to the I.A.F. and five to I.A.C. against the orders of fourteen for its internal services.

The Aeronautics (India), Ltd., was registered in Delhi in August 1963 to undertake the manufacture, under a licence agreement with the Government of the U.S.S.R., of a modified, single-engined MIG-21 supersonic fighter aircraft, complete in all respects.

Substantial progress has been made in the establishment of the M.I.G. factories at Nasik, Koraput and Hyderabad. The first phase of the manufacturing programme, viz. erection of aircraft from imported assemblies has been established at Nasik and some aircraft were delivered to the I.A.F. during 1966-67. Deliveries of M.I.G. aircraft, manufactured from new materials are expected to begin in 1971.

To streamline aircraft manufacturing industry in the country, all the existing units have been brought under the unified control of Hindustan Aeronautics Ltd. (HAL).

BHARAT ELECTRONICS LTD.

(See under article "Government Industrial Undertakings").

SHIP-BUILDING AND REPAIRS

The Production Organisation has also under it the Mazagon Dock, Ltd., Bombay,† and the Garden Reach Workshop, Ltd., Calcutta.† While these shipyards continue to carry out refits and repairs of commercial ships, they also do so for naval ships.

The Hindustan Aeronautics Ltd., The Bharat Electronics Ltd., Bangalore, the Praga Tools Ltd., Secunderabad and the Bharat Earth Movers Ltd., Bangalore, are the other public sector undertakings under the Department of Defence Production in the Ministry of Defence. Crawler-Tractor assembled by BEML rolled out recently.

NATIONAL CADET CORPS

Aim : (1) to develop character, comradeship, ideal of service and capacity for leadership in young men and

† See under article "Government Industrial Undertakings," for more details.

women, (2) to stimulate interest among youth in the defence of the country, and (3) to build up a reserve of manpower to enable the Armed Forces to expand rapidly in a national emergency. The organisation is, thus, mainly of an educational and nation-building character. Officers and cadets have no liability for active military services.

A certain percentage of the total intake of candidates for commissioned ranks in the Army, Navy and Air Force, on the basis of direct entry to the Armed Forces training institutions, has been reserved for N.C.C. cadets of the three Services.

The N.C.C. consists of three divisions: (1) Junior, (2) Senior and (3) Girls'.

TRAINING INSTITUTIONS

The important training institutions common to the three Services are given below:

National Defence College, New Delhi: Trains senior officers of the three Services on the pattern of the Imperial Defence College in the U.K. Its main purpose is to enable students to study the military, scientific, industrial, social, economic and political factors involved in war as also the higher direction and strategy of warfare.

Defence Services Staff College: The Defence Services Staff College is located in Wellington in the Nilgiri Hills in South India. One hundred officers drawn from all the three Services, including six officers from the U.S.A. and Commonwealth countries are trained every year. The aim of the course is to prepare officers to hold second-grade or equivalent staff appointments or higher staff or command appointments.

National Defence Academy, Khadakvasla: Army, Navy, and Air Force cadets receive three years' combined basic training.

Rashtriya Indian Military College, Dehra Dun: Brings up future officers of the three Services by imparting preliminary pre-cadet training to such pupils as desired subsequently to choose a military career.

School of Foreign Languages, New Delhi: Meets the growing demand for qualified linguists. It also conducts examinations in various Indian languages for service personnel.

Armed Forces Medical College, Poona: Is designed to meet the requirements of the integrated medical services of the Army, Navy and Air Force.

Military Schools: Located at Bangalore, Ajmer, Chail, Belgaum and Dholapur. These Military Schools provide public-school education for the children of serving personnel.*

Sainik Schools: There are at present 15 Sainik Schools located in the States of Andhra Pradesh, Assam, Bihar, Gujarat, Kerala, Madhya Pradesh, Tamil Nadu, Maharashtra, Mysore, Orissa, Punjab, Rajasthan, Uttar Pradesh and West Bengal, imparting middle and secondary school public education with a military bias.

ARMED FORCES MEDICAL SERVICES

Aim: To integrate the medical services of the Armed Forces.

The Directorate has under it the Armed Forces Medical College and the Artificial Limb Centre.

RESETTLEMENT DIRECTORATE

The Directorate-General of Resettlement in the Defence Ministry deals with matters relating to the rehabilitation of ex-Servicemen in civil life.

In the matter of employment, the Government have accorded preference to ex-Servicemen in filling up appoint-

ments in police, excise, watch and ward and other departments for which military training is a qualification.

SOLDIERS', SAILORS' AND AIRMEN'S BOARD

The Indian Soldiers', Sailors' and Airmen's Board, New Delhi, is the most important official institution connected with the welfare of serving personnel of the Armed Forces and ex-Servicemen and their families.

GALLANTRY AWARDS

The Param Vir Chakra is awarded for most conspicuous bravery, or some daring or pre-eminent act of valour or self-sacrifice whether on land, at sea or in the air. It ranks first among all awards.

The Maha Vir Chakra is awarded for conspicuous acts of gallantry whether on land, at sea or in the air.

The Vir Chakra is awarded for acts of gallantry whether on land, at sea or in the air.

Ashok Chakra is awarded for most conspicuous bravery, or some daring or pre-eminent act of valour or self-sacrifice. Kirti Chakra is awarded for conspicuous gallantry and Shaurya Chakra for gallantry.

A system of Mention-in-Despatches was also instituted. A 'lotus leaf' emblem is worn by the awardees on the ribbon of the campaign/war medal concerned.

NEW SERVICE MEDALS

Param Vishisht Seva Medal, Ati Vishisht Seva Medal and Vishisht Seva Medal respectively are awarded to personnel of all the three Services in recognition of distinguished service of the "most exceptional", an "exceptional" and a "high" order respectively. Sainya Seva Medal to all Service personnel in recognition of non-operational duties under conditions of hardship and severe climate, and the Videsh Seva Medal to all ranks of the Armed Forces for duties outside India. The Army, Navy and Air Force medals are awarded in recognition of such individual acts of exceptional devotion to duty or courage as have special significance for the Service concerned.

Two new Medals are Samar Seva Star and Raksha Medal.

INDIAN ARMY

Army H.Q.: The Head of the organisation located in New Delhi, is the Chief of the Army Staff. He is assisted by the Vice-Chief of the Army Staff and four other Principal Staff Officers (the Deputy Chief of the Army Staff, the Adjutant General, the Quartermaster General, the Master General of the Ordnance) and two Heads of Branches (the Military Secretary and the Engineer-in-Chief).

Under the Army H.Q., the Indian Army is organised into four Commands—Eastern, Western, Southern and Central, each being under a General Officer Commanding-in-Chief of the rank of Lieutenant-General. The Commands are divided into Areas, each under the command of a G.O.C. of the rank of Major-General. The Areas, in their turn, are sub-divided into Sub-Areas each under the command of a Brigadier.

Mobile formations are the Corps, Divisions, Brigade group, Independent Brigade and Brigades. Two or more Divisions or a combination of Divisions, Brigade Groups and Independent Brigades are constituted into a Corps under a Corps Commander of the rank of Lt. General, who functions under the control of the Army Commander.

The Army consists of a number of arms and services. They are Infantry, Armoured Corps, Regiment of Artillery, Corps of Engineers, Corps of Signals, Army Service Corps, Army Ordnance Corps, Army Medical Corps, Army

* Children of civilians are also admitted now.

Dental Corps, Corps of Electrical and Mechanical Engineers, Army Education Corps, Remounts, Veterinary Corps, Corps of Military Police and Defence Security Corps.

TERRITORIAL ARMY

The Territorial Army is an auxiliary force to the regular Army and is the second line of Defence. This force consists of citizens who follow their normal avocations and receive military training in their spare time, and undergo active military service when embodied.

Territorial Army officers have been made eligible for promotion to the acting rank of Brigadier, against a specific vacancy, on completion of 20 years of service.

The role of the Territorial Army is to

- (i) relieve the Regular Army of static duties and support civil power if required,
- (ii) provide coastal defence and anti-aircraft units,
- (iii) provide units for the Regular Army if and when required.

No officer or enrolled person is required to perform military service beyond the limits of India, save under a general or special order of the Central Government.

TRAINING INSTITUTIONS

Recruitment for the permanent cadre of commissioned ranks in the Army is done through the National Defence Academy, Khadakvasla, and the Indian Military Academy, Dehra Dun. After completion of their three-year course at the N.D.A., Army cadets have to spend another one year at the Military Academy before being commissioned. Direct admission to the Academy at higher age-levels also continues, though the number of cadets so taken is limited.

There is an Officers' Training School at Madras to train emergency commission candidates for the Army. The school is now designed to run courses for short service regular commissions.

The various ranks in the Army from the top downwards are: General, Lieutenant-General, Major-General, Brigadier, Colonel, Lieutenant-Colonel, Major, Captain, Lieutenant, Second Lieutenant, Subedar-Major/Risaldar-Major, Subedar/Risaldar, Naik Subedar Dafadar, Havildar, Naik, Lance-Naik and Sepoy/Sowar.

INDIAN NAVY

The Indian Navy is controlled both administratively and operationally from Naval HQ in New Delhi through a chain of commands.

At the Naval HQ, the Chief of the Naval Staff is assisted in his task by four Principal Staff Officers, namely the Vice-Chief of the Naval Staff, the Chief of Personnel, the Chief of Material and the Assistant Chief of the Naval Staff.

The Naval Secretary functions also as the Secretary to the Chief of the Naval Staff.

The Naval HQ exercises control over the Navy through the following commands:

1. Western Naval Command—under the Flag Officer, Commanding-in-Chief, Western Naval Command, Bombay;
2. Eastern Naval Command—under the Flag Officer, Commanding in Chief, Eastern Naval Command, Vishakhapatnam;
3. Southern Naval Area—under the Commodore Commanding, Southern Naval Area, Cochin. The Flag Officer Commanding, Western Naval Fleet (previously called the Flag Officer Commanding, Indian Fleet is now operationally and administratively responsible to the Flag Officer, Commanding-in-Chief, West.

Today, the Indian Fleet consists of I.N.S. VIKRANT (Flagship of the Navy), an aircraft-carrier, I.N.S. MYSORE, a Colony-class cruiser, I.N.S. DELHI, a Leander-class cruiser, two Destroyer Squadrons (I.N.S. RANJIT, RAJPUT, RANA, GODAVARI, GOMATI and GANGA) and a number of Frigate Squadrons, including some of the latest types of anti-submarine and anti-aircraft frigates. These new types of frigates, specially constructed for the Navy in the U.K. are I.N.S. BRAHMAPUTRA, BEAS, BETWA, KHUKRI, KIRPAN, KUTHAR, TALWAR, and TRISHUL. The former frigates are I.N.S. CAUVERY, KISTNA, and TIR, which are now being used for cadets' training. The three Mine-sweeping Squadrons are formed by I.N.S. KONKAN, KARWAR, KAKINADA, CANNANORE, CUDDALORE, BASSEIN and BIMPATAM.

In addition, the Fleet has some survey ships, a tanker and some auxiliary craft. The survey unit of the Navy, which now comprises I.N.S. INVESTIGATOR, JUMNA, SUTLEJ and DARSHAK, carries out the necessary survey of India's coast and approaches to harbours. I.N.S. DARSHAK of 2,750 tons displacement is the first naval ship built in India.

A Resident Naval Officers' Organisation I.N.S. JARAWA has been set up at Port Blair with the necessary transport and communication facilities.

It is proposed to develop a naval base and dockyard at Visakhapatnam. It has also been decided to develop Mormugao as a naval base; it was formally commissioned in March 1964 as I.N.S. GOMANTAK. The base includes I.N.S. HANSA the Naval Air Station at Dabolim, where facilities for the operation of jet aircraft are being developed.

NAVAL AVIATION

The Naval Air Arm, which is one of the youngest branches of the Navy, came into being in 1948 for training aircrew, followed soon after by the setting up of a Naval Air Station at Cochin. Later, the formation of a Fleet Requirements Unit was approved, aircraft, equipment and spares acquired and officers and ratings deputed for training courses abroad.

A Naval Air Training School has been set up at Cochin to train ratings in the maintenance and repair of aircraft. At the same time, the Government are considering setting up a School for Naval Airmen for training non-technical personnel.

TRAINING ESTABLISHMENTS

The training of other naval personnel is carried out in the shore establishments of I.N.S. VENDURUTHY, Cochin, I.N.S. CIRCARS, Visakhapatnam, I.N.S. ANGRE, Bombay, I.N.S. KUNJALI, Bombay, I.N.S. SHIVAJI, Lonavla, I.N.S. VALSURA, Jamnagar, and I.N.S. HANSA, Bombay. I.N.S. ASVINI at Bombay, I.N.S. SANJIVANI at Cochin, I.N.S. KALYANI at Vishakhapatnam and the recently commissioned I.N.S. JEEVANTI at Goa are the four naval hospitals.

The various ranks in the Navy from the top downwards are: Admiral, Vice-Admiral, Rear-Admiral, Commodore, Captain, Commander, Lieut.-Commander, Lieutenant, Sub-Lieutenant, Midshipman, Chief Petty Officer, Petty Officer, Leading Rate, Able Rate and Ordinary Rate.

INDIAN AIR FORCE

The Air HQ is divided into three main branches—Air Branch, which deals with operations, training, policy and plans, signals, reserves and intelligence, Administration

Branch and Maintenance Branch. Each is under a Branch P.S.O. who, in turn, has several Directorates under him.

There are three Operational Commands of the Air Force with headquarters at Palam, Allahabad and Shillong, respectively known as Western, Central and Eastern Air Commands. The Maintenance Command is at Nagpur, while the Training Command is located at Bangalore.

The Operational Commands control all flying units—fighter, bomber, reconnaissance and air-transport squadrons. The Training Command has under its control training schools and colleges for both officers and airmen for technical and non-technical ground training and for aircrew flying training. The Maintenance Command controls all technical and equipment units in the Air Force. All the five Commands are headed by Air Officers Commanding-in-Chief. The A.O.C.S.-in-C. of Western Air Command and Eastern Air Command hold the rank of Air Marshal. The other three are in the rank of Air Vice-Marshal.

The different types of aircraft used by the Air Force are :
Training : HT-2, Harvard, Vampire and Dakota.

Fighter : Vampire, Toofani (Ouragon), Mystere, Hunter, Gnat MIG-21 and HF 24.

Transport : Dakota, Devon, Fairchild-Packet, Otter, Ilyushin, 14, Caribou, AN-12 Super Constellations TU-124, HS-748 and MI-4, Bell and Alouette 3 Helicopters.

Bomber : Canberra.

Reconnaissance : Liberator and Canberra.

TRAINING ESTABLISHMENTS

The Air Force Flying College at Jodhpur is the nursery of pilots, navigators and air-signallers. Advance flying training to aircrew is provided at Hyderabad, a Jet Training Wing and a Transport Training Wing having been set up at Hakimpet and Begumpet respectively as part of the Air Force Station. On successful completion of their one-year training at Jodhpur, pupil aircrew have to undergo a year's training at Hakimpet or Begumpet before being awarded their wings and commissioned.

The Air Force Administrative College at Coimbatore trains officers of the ground duty branches. The Air Force Technical College at Jalahalli, near Bangalore, imparts training to engineering officers and technical airmen of certain advanced signals trades. The No. 1 Ground Training School at Jalahalli trains non-technical airmen. The No. 2 Ground Training School at Tambaram (Madras) trains technical tradesmen (airmen). The No. 3 Ground Training School at Jalahalli is intended for airmen trainees of higher signals trades.

A School of Land/Air Warfare has been set up at Secunderabad to train Army and Air Force officers in the doctrine and planning of joint operations by air and ground forces, namely close air support, air transport support and air defence.

The School of Aviation Medicine, in Bangalore runs courses for the training of medical officers and airmen in the science of aviation medicine.

The I.A.F. Paratroopers' Training School at Agra, continues to train paratroopers for the Army, personnel for the I.A.F. Para-Medical Flights and instructors for the School itself.

AUXILIARY AIR FORCE

Seven Auxiliary Air Force Squadrons have so far been raised at Delhi, Bombay, Calcutta, Allahabad, Madras, Bhubaneshwar and Chandigarh.

The A.A.F. is intended to assist the Regular Air Force in aerial defence and to provide air support to the Regular Army and the T.A. in an emergency.

The various ranks in the Air Force from the top downwards are : Air Chief Marshal, Air Marshal, Air Vice-Marshal, Air Commodore, Group Captain, Wing Commander, Squadron Leader, Flight Lieutenant, Flying Officer, Pilot Officer, Master Warrant Officer, Warrant Officer, Flight Sergeant, Sergeant, Corporal, Leading Aircraftman, Aircraftman Class I. All the squadrons have now been number plated.

INSURANCE

PUBLIC AND PRIVATE INSURANCE SECTORS

SINCE Sept. 1, 1956, when the L.I.C. of India was established, life insurance business in India is transacted by this Corporation and, in a restricted sphere, by the Posts & Telegraphs Department of the Govt. of India and by the State Governments of Andhra Pradesh, Jammu & Kashmir, Kerala, Madhya Pradesh, Mysore, Rajasthan and Uttar Pradesh who carry on compulsory life insurance of their employees only. Fire, Marine & Miscellaneous classes of insurance business are transacted both by the Indian insurance companies and by foreign insurance companies operating in India. In addition, the L.I.C. and certain State Governments are also transacting such business. The Government of Gujarat and Maharashtra insure all types of their property in their commercial and industrial undertakings. Kerala State is transacting fire and motor insurance business and Mysore State motor insurance business only.

In addition to the L.I.C. the Central Government has established two other Corporations in the insurance Sphere—Employees' State Insurance Corporation and Export Credit and Guarantee Corporation. The former

conducts compulsory health insurance of workers and their families in specified industrial concerns. The latter covers marine and commercial risks for exporters in India, other than those risks normally covered by private insurers in India.

LIFE INSURANCE

The Life Insurance Corporation of India did a new total business* of about Rs. 844 crores sum assured under 14.28 lakh policies during the 12 months ended 31st March, 1968. Of this, foreign business was Rs. 9.07 crores. During the previous period of 12 months ended 31st March 1967, the total business secured was about Rs. 770 crores under 14.12 lakh policies, of which foreign business was Rs. 12.33 crores.

The Corporation has a network of offices all over the country to procure new business and for servicing the existing business. There are 5 Zonal Offices, one each in Bombay, Madras, Kanpur, Calcutta, Delhi and the Central Office at Bombay. There are 36 Divisional Offices, and 701 Branches, Sub-offices and Development Centres i.e., 743 offices in all.

* The total business comprised by the Corporation, including foreign business, during the first eight months of 1968-69 amounted to Rs. 406.20 crores, involving 6,89,311 policies against Rs. 388.55 crores involving 6,80,256 policies during the same period in 1967-68.

The Corporation also transacts business in the following foreign countries with 2 Divisional Offices and 11 Branch Offices: Aden, Fiji, Hong Kong, Malaysia, Singapore, Kenya, Mauritius, Uganda and the United Kingdom.

1967-68 REPORT

At the end of the 12 months accounting period ended

The following table gives the life assurance business in force at the end of each of the last four accounting periods:—

Business in force as at	In India		Outside India		Total	
	No. of policies (lakhs)	Sum assured and bonuses (Rs. crores)	No. of policies (lakhs)	Sum assured and bonuses (Rs. crores)	No. of policies (lakhs)	Sum assured and bonuses (Rs. crores)
31-3-1965	106.70	3,774	1.92	112	108.62	3,886
31-3-1966	114.10	4,282	1.79	112	115.89	4,394
31-3-1967	119.98	4,593	1.24	131	121.22	4,724
31-3-1968	126.43	5,116	1.16	124	127.59	5,240

During the accounting period the Corporation completed a new business of Rs. 844.47 crores sum assured under 14,28,043 policies. Business completed in the previous accounting period amounted to Rs. 770.27 crores under 14,11,920 policies.

About 35.8 per cent of the total number of policies in India assuring about 28.2 per cent of the total new sums assured in India, were issued in rural areas as defined in

the 1961 Census. About 46.7 per cent of the policies or 23.7 per cent of the new sums assured in India were issued under the non-medical schemes. In addition to the total new business stated above, the Corporation issued 773 Deferred Annuities and 104 Immediate Annuities with a total annual payment of Rs. 14.60 lakhs and Rs. 2.70 lakhs respectively. Further, under Group and Superannuation Schemes, it granted Annuities of Rs. 40.72 lakhs per annum.

New Business :

Year	In India		Outside India	
	No. of policies	Sum Assured Crores of Rs.	No. of policies	Sum Assured Crores of Rs.
1964-65	14,35,601	690.03	8,751	11.05
1965-66	15,54,758	789.29	6,445	8.50
1966-67	14,06,033	757.94	5,887	12.33
1967-68	14,23,380	835.40	4,663	9.07

A market variation is noticeable in the size of the average policy sold in the different Zones by the Corporation. The figures are given below (Rs.):

Northern Zone (Delhi): 6,904; Central Zone (Kanpur): 5,837; Western Zone (Bombay): 6,728; Eastern Zone (Calcutta): 5,444; Southern Zone (Madras): 5,114; In India: 5,869; Foreign: 19,451; All business: 5,913 as against 5,456 in the period 1-4-1966 to 31-3-1967.

ACCOUNTS

The Life Fund stood at Rs. 1,260.06 crores on 31st March, 1968, registering an increase of about Rs. 136.16 crores over the life fund of Rs. 1,123.90 crores as on 31st March 1967. During this period, the Corporation's income from all sources totalled about Rs. 283 crores, made up of Rs. 213 crores from premiums and about Rs. 70 crores from returns on its invested funds and from miscellaneous sources.

The interest income of Rs. 61.7 crores represents earnings of 5.18% on the mean life fund after deducting income-tax. The rate per cent of interest from 1964-65 is given below:

1964-65: 4.90; 1965-66: 4.76; 1966-67: 5.29; 1967-68: 5.18. The gross rate of interest earned on the mean life

fund during the year was 5.88 per cent per annum as against 5.76 per cent per annum for the previous year.

On the outgo side Rs. 71 crores represented claims and other benefits to the policy-holders, Rs. 59 crores expenses of management, Rs. 9 crores incometax, Rs. 4 crores Governments' share of surplus, Rs. 3 crores miscellaneous expenses, the balance of nearly Rs. 137 crores addition to the Life Fund. On the claims side, nearly Rs. 16 crores represented claims by death and nearly Rs. 47 crores by maturity, annuities, surrender and bonuses in cash etc., accounting for the balance.

Over-all expenses ratio: 1964-65: 27.6%; 1965-66: 27.6%; 1966-67: 27.7%; 1967-68: 27.5%.

The renewal expense ratio in terms of Rule 25(b) of Insurance Rules 1939 was 15.90% as against 15.91% for the previous year ended 31st March, 1967, once again exceeding the statutory limit of 15%.

INVESTMENTS

The total investments pertaining to life business as at 31st March 1968 amounted to Rs. 1,202.45 crores of which

Rs. 24·71 crores were out of India. The break-up of Indian investments is as follows :

Indian and State Government and other approved securities ..	Rs. 668·87 crores
Debentures and shares of Joint stock companies in India	Rs. 202·77 "
Loans to Housing Schemes—State Governments and Cooperative Finance	Rs. 132·58 "
Mortgages of Properties	Rs. 25·05 "
House Property	Rs. 34·88 "
Due from State Governments for controlled business taken over ..	Rs. 3·57 "
Other Loans etc.	Rs. 109·28 "
Share in Initial Capital of Unit Trust of India	Rs. 0·75 "
	<hr/>
	Rs. 1,177·75 crores

In addition, investments pertaining to the General Insurance Business (including Capital Redemption and Annuity Certain) was Rs. 4·71 crores.

On 31st March 1968, the Corporation held stock exchange securities aggregating nearly Rs. 894 crores, of which about Rs. 872 crores were in India and the balance outside India.

A broad classification of investments in India shows that 73·2% was invested in the public sector, and 19·0% in the private sector and 7·8% in the co-operative sector. Besides the loans issued by the Central and State Governments, investments in the public sector include loans, bonds, shares or debentures of municipalities, Improvement Trusts, Port Trusts, Land Mortgage Banks, State Financial Corporations and Statutory Corporations. Investments in the private sector take the form of debentures, preference shares and ordinary shares of industrial and commercial undertakings.

Debentures, preference and ordinary shares of joint stock companies held by the Corporation may be classified as under according to the character of the industries (Rs. lakhs) :

Aluminium: 536·14; Banks: 726·39; Cement: 1017·14; Coal: 405·43; Cotton Textiles: 2514·96; Dyes, Chemicals and Pharmaceuticals: 686·52; Electricity: 1407·57; Electrical Goods: 1007·26; Engineering: 3672·40; Food, Drinks and Tobacco: 166·13; Insurance: 244·46; Investment Trusts: 255·56; Iron and Steel: 1707·53; Jute: 561·69; Managing Agents: 164·42; Matches: 84·72; Mining: 80·76; Mineral Oil: 998·81; Paper and Board 777·74; Plantations: 275·80; Railways: 71·71; Rubber Products: 485·45; Shipping and Transport: 75·99; Sugar and Breweries: 725·02; Textiles (other than Cotton): 636·87; Vegetable Oils: 203·92; Cooperative Housing Societies: 23·54; Miscellaneous: 763·23. Total: Rs. 20277·16 lakhs.

Underwriting New Capital Issues

During the accounting year ended 31st March, 1968, the L.I.C. underwrote 110 new issues to the extent of Rs. 2310·89 lakhs, comprising Debentures of Rs. 1891·20 lakhs, Preference Shares Rs. 359·00 lakhs and Ordinary Shares Rs. 60·69 lakhs. Of these, 81 issues were placed in the market during the period, in addition to 25 issues placed in the previous year with allotments of Rs. 2286·24 lakhs against Rs. 2440·95 lakhs underwritten and Rs. 2440·49 lakhs applied for.

PERSONNEL

On 31st March, 1968, there were 52,007 employees of whom 3,094 were officers, 8,366 Development Officers,

33,497 supervisory and clerical staff and 7,050 subordinate staff. The total monthly salary bill in March, 1968 was Rs. 246·12 lakhs.

Out of over 1·66 lakh agents on the books on 31st March 1968, about 1·44 lakhs were active.

The average production per active agent during the accounting period was Rs. 57,883 as against Rs. 52,573 during the previous year.

VALUATION & BONUS

Six biennial valuations were made till March 1967. The sixth valuation was made as at 31st March 1967. The total surplus shown was Rs. 72·28 crores. Out of this Rs. 68·67 crores were allocated to the participating policies and Rs. 3·61 crores to the Central Government as its share. In respect of the policies issued by the L.I.C. itself, the rate of reversionary bonus allotted was Rs. 20·00 per thousand sum assured per annum for whole life policies and Rs. 16·00 for endowment assurance policies. The corresponding rates of bonus at the previous valuation were Rs. 20·00 per thousand sum assured per annum and Rs. 16·00 per thousand sum assured per annum respectively. The policies issued by the erstwhile insurers were allotted bonuses at different rates as per the scheme of differential bonuses approved by the Government.

GENERAL INSURANCE

As on 31st December 1967 there were 132 (as against 138 in 1966) companies registered under the Insurance Act, 1938 to transact one or more classes of general insurance business of which 73 were Indian and 59 non-Indian. 6 non-Indian insurers ceased to operate in 1967. The number of Indian insurers excludes the Life Insurance Corporation of India (which is registered for Life and Miscellaneous insurance business) but includes its three (since amalgamated into one on 1st January 1961) subsidiaries which conduct general insurance business. It also includes 11 insurers registered for Country Craft (marine) insurance business only with 6 non-tariff offices and three doing only reinsurance business, one of which is a subsidiary of the L.I.C.

Of the 59 non-Indian offices, 34 have their head-offices in the U.K.

During the year ended 31st March 1968, the L.I.C. secured a gross direct premium of Rs. 12·62 crores as against Rs. 6·99 crores in the previous year. The breakdown thereof is Rs. 2·81 crores under Fire, Rs. 5·53 crores under Marine and Rs. 4·28 crores under Miscellaneous insurance classes. The total net premium amounted to Rs. 3·99 crores. The net claims were Rs. 43·93 lakhs, Rs. 117·07 lakhs and Rs. 69·53 lakhs in Fire, Marine and Miscellaneous insurance respectively. The net underwriting profits were Rs. 79·91 lakhs.

The total income and outgo in respect of the general insurance business of Indian insurers (excluding the Life Insurance Corporation of India) during 1966 is analysed below :

Particulars	Rs. lakhs
<i>Income</i>	
Premiums less reinsurances :	
In India	43,38
Outside India	27,27
Net interest, dividends and rents	1,66
Other income	4,17
Total	76,48

Particulars				Rs. lakhs	Particulars				Rs. lakhs
<i>Outgo</i>					<i>Outgo</i>				
Claims less reinsurances	..	..	..	40,94	Profits transferred to Profit and Loss Account	..	..	..	2,26
Net commission	..	..	..	11,58	Actual increase in Reserves for unexpired risks and Additional Reserves	..	..	..	6,98
Expenses of management	..	..	..	14,51					
Miscellaneous outgo	..	..	..	21					
Total	..	..	..	67,24	Excess of Income over Outgo	..	..	..	9,24

The percentage of the net premium income of Indian Insurers (including L.I.C. of India) and of Non-Indian Insurers, spent by way of claims expenses, etc., during the year 1966 is shown in the following table:—

Ratio to Net Premium Income of	Fire		Marine		Miscellaneous	
	Indian Insurers	Non-Indian Insurers	Indian Insurers	Non-Indian Insurers	Indian Insurers	Non-Indian Insurers
Net Claims	43.8	30.5	82.0	67.4	59.1	46.4
Expenses of Management including commission	39.6	42.2	24.1	34.9	36.3	41.2
Increase in Reserves*	8.9	6.1	9.2	3.9	7.0	3.9
Miscellaneous outgo	—7.6	0.1	—11.8	1.8	—6.4	0.4
Balance	15.3	21.1	—3.5	—8.0	4.0	8.1
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0

* Increase in Reserves is obtained by taking 40 per cent in the case of Fire and Miscellaneous and 50 per cent in the case of Marine insurance business of the increase in net premium income during the year 1966 over that of the preceding year.

The following tables present a comparative study of the insurance business in India and outside India of Indian insurers (including L.I.C. of India) and of the business in India of non-Indian insurers.

(Premiums in lakhs of rupees)

Year	Fire Premiums		Marine Premiums		Miscellaneous Premiums		Total	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
I. INDIAN INSURERS								
<i>Business in India</i>								
1964	14,67	10,41	9,53	6,02	20,96	18,46	45,16	34,89
1965	17,42	13,07	10,99	7,28	23,50	20,71	51,92	41,06
1966	20,01	15,92	13,06	8,20	26,31	22,79	59,38	46,91
<i>Business outside India</i>								
1964	1,78	8,48	1,74	2,93	6,34	6,73	9,86	18,14
1965	1,66	8,77	1,64	2,91	7,10	7,07	10,40	18,75
1966	2,24	12,17	1,81	4,29	9,88	10,85	13,93	27,31
II. NON-INDIAN INSURERS								
<i>Business in India</i>								
1964	7,06	4,24	3,81	2,64	5,02	3,95	15,89	10,83
1965	7,83	4,71	4,37	2,95	5,38	4,29	17,58	11,95
1966	8,83	5,56	4,99	3,20	5,79	4,75	19,61	13,51

ASSETS

The total assets of the general insurance business of Indian insurers (excluding L.I.C. of India) amounted to Rs. 1,31,94 lakhs on 31st December 1966 (as against Rs. 1,12,67 lakhs on 31st Dec. 1965).

The total assets in India in respect of the general insurance business of the non-Indian insurers amounted to

Rs. 22,64 lakhs on 31st December 1966 as against Rs. 20,14 lakhs on 31st December 1965.

The following table gives the index numbers of general insurance business in India (including that of L.I.C.) and the general index numbers of industrial production (base year 1956) for the years 1960 to 1966. Comparison of these figures will indicate the potentiality for progress of general insurance business in India and the actual progress made by this business.

	1960	1961	1962	1963	1964	1965*	1966*
Index no. of general insurance business in India	129.0	144.3	160.5	175.1	181.4	190.3	190.2
General Index no. of industrial production	130.1	141.0	153.3	165.8	177.4	186.9	192.6

* Including that of L.I.C.

(in lakhs of rupees)

	Year	Fire	Marine	Miscellaneous	Total
1. Profit in respect of gross direct business in India of all insurers	1966	6,67	—46	—4,15	2,06
2. Profit in respect of total net business of Indian insurers ..	1966	4,28	—45	1,31	5,14
3. Profit in respect of net business in India of Non-Indian insurers	1966	1,18	—26	38	1,30
4. Profit in respect of gross direct business outside India of Indian insurers ..	1966	— 19	—79	—1,56	—2,54
5. Drain on account of reinsurers abroad—[(1) + (4) — (2) — (3)]	1966	+ 1,02	—54	—7,40	—6,92

Note: Unexpired risk reserves have been taken at 40% of the premium income for Fire and Miscellaneous and 50% of the premium income for Marine insurance business.

REINSURANCE

To minimise the drain on account of reinsurance transactions abroad, the Insurance Act, 1938 was amended, early in 1961, by inserting Part IVA Reinsurance, Sections 101A and 101B. Section 101A provides that every insurance company operating in India must reinsure a certain percentage of its business (not exceeding 30%) with Indian reinsurance companies approved in this behalf by the Central Government namely, India Reinsurance Corporation Ltd., and Indian Guarantee and General Insurance

Co. Ltd., both having their registered offices in Bombay and the latter being a subsidiary of the LIC of India.

Social Control on General Insurance

Government of India has passed a Bill, in the November 1968 session of the Parliament, amending the existing laws governing general insurance to bring them in line with the scheme for social control, which will apply to it like banking. The Bill has been signed by the President and will come into force as Insurance (Amendment) Act, 1968, on 1st April 1969.

THE PRESS

THE 12th Annual Report of the Registrar of Newspapers for India for the year 1967 shows that there were 11,678 newspapers and periodicals compared to 10,977 in 1966.

Circulation share of newspapers owned by common ownership units in the total circulation of the entire press improved by 6.8 per cent in 1967.

The number of daily constituents of such units has improved by 13.3 per cent during five years from 130 in 1962 to 159 in 1967. Circulation of such dailies has improved by 40.0 per cent during the same period and by 6.8 per cent compared to 1966. Their share in the total circulation of all dailies in the country was 74.3 per cent in 1967 compared to 73.6 per cent in 1966 and 65.9 per cent in 1962.

The Indian Press in 1967 consisted of 646 dailies, 2,697 weeklies and 5,972 other periodicals.

During the year as many as 1,202 newspapers commenced and 369 ceased publication. Among the new starters were 64 dailies as compared to 54 in 1966. Cessations were the highest in English namely 74 including four dailies. The largest number of newspapers (361) was started in Hindi (including 26 dailies) followed by English (213, including 10 dailies).

Hindi had the largest number of newspapers 2,207 (193 dailies) followed by English 1,958 (68 dailies), Urdu 864 (90 dailies), Bilinguals 691 (23 dailies), Bengali 595 (17 dailies), Marathi 550 (52 dailies) and Gujarati 546 (42 dailies).

Periodicitywise, there were 646 dailies, 2,697 weeklies, 961 fortnightlies, 3,772 monthlies, 799 quarterlies, 316 bi-monthlies, half-yearlies, etc. and 124 annuals.

Maharashtra had the largest number of newspapers 1,452 (92 dailies). Uttar Pradesh had 1,406 (114 dailies), West Bengal 1,050 (33 dailies) and Delhi 1,016 (24 dailies).

CIRCULATION

The comparative circulation data (of papers common to 1966 and 1967) reveal an increase of 3.1 per cent in

1967 as compared to 1966. Newspapers in all periodicities gained in circulation during 1967, dailies and weeklies having recorded gains of 5 per cent and 2 per cent respectively.

Out of the total circulation of 218.87 lakhs in 1967, dailies* accounted for 66.87 lakhs, weeklies commanded a total circulation of 59.73 lakhs and other periodicals 92.27 lakhs, as against 63 lakhs, 58.8 lakhs and 95.8 lakhs respectively in 1966.

Newspapers in the English language had the largest circulation 55.5 lakhs in 1967. Hindi came next with 41.9 lakhs, followed by Tamil (24.9 lakhs), Malayalam (16.7 lakhs), Gujarati (15.3 lakhs), Marathi (13.6 lakhs), Bengali (12.3 lakhs), Urdu (11.5 lakhs) and Telugu (7.4 lakhs). Among the 15 principal languages, the circulation of Sanskrit and Assamese newspapers was below one lakh, that is, 5,000 and 85,000 respectively.

In 1967, among the dailies* English (17.66 lakhs) had the highest circulation, followed by Hindi (9.60 lakhs), Tamil (7.54 lakhs), Malayalam (6.88 lakhs) and Marathi (6.11 lakhs).

Hindi (12.21 lakhs) claimed the highest circulation among weeklies in 1967, followed by Tamil (10.49 lakhs), English (9.95 lakhs) and Malayalam (5.28 lakhs).

The total circulation of 4,035 common newspapers and periodicals for which circulation data were available for 1966 as well as 1967 was 202 lakhs in 1967 as compared to 196 lakhs in 1966, recording a rise of 3.1 per cent in 1967 in the circulation of newspapers, common to both the years.

The highest increase in circulation was reported in Assamese papers (15.3 per cent), followed by Punjabi (13.1 per cent), Gujarati (6.0 per cent) and English (5.5 per cent). There was decrease in the circulation of Telugu papers (6.0 per cent), followed by multilinguals (5.4 per cent) and Oriya (1.6 per cent).

Readership: The number of newspapers per lakh inhabitants† in India rose to 1.8 in 1967 from 1.7 in 1966.

* Includes tri- and bi-weeklies.

† Based on estimated increase.

The circulation of newspapers per thousand inhabitants computed on the basis of revised circulation for 1965, 1966 and preliminary circulation for 1967 worked out to 50.7, 50.6 and 42.8 respectively. The preliminary figures for 1966 were 43.5.

Sindhi had the largest number (4.0) of newspapers per lakh of population in 1967, followed by Urdu (3.2), Gujarati (2.3) and Marathi and Hindi 1.4 each. Assamese had the smallest number of papers per lakh inhabitants, namely, 0.3 and 0.5 respectively.

The highest newspaper circulation per thousand inhabitants was shown by Malayalam (84.8), followed by Tamil (70.5), Gujarati (62.2) and Sindhi (65.0). The lowest was in Oriya (7.6) followed by Assamese (10.8).

OWNERSHIP

At the end of 1967, there were 62 common ownership establishments as against 57 in 1966. The share of newspapers belonging to the 'common ownership' units in the total circulation of all papers increased to 26.6 per cent in 1967 from 24.6 per cent in 1966, the total number of newspapers belonging to these units increasing to 209 from 194.

The number of the daily* constituents of the common ownership units increased from 154 (1966) to 159 (1967) and their corresponding share in the total circulation of all dailies went up from 73.6 per cent to 74.3 per cent.

Out of 9,315 newspapers for which ownership data were available, the number of papers run under individual ownership was 5,551 (59.6 per cent) in 1967, as compared to 5,030 in 1966, showing an improvement of 10.4 per cent. Societies and associations (including religious societies) came next with 1,870 papers (20.0 per cent). Firms and partnerships owned 6.2 per cent and joint stock companies held 4.7 per cent.

The newspapers owned by joint stock companies, although only 4.7 per cent of the total number of papers in India, claimed the largest share of the total circulation commanded by all papers in 1967.

The next largest share in circulation was enjoyed by newspapers owned by individual proprietors. Papers published by societies and associations, firms and partnerships and trusts had 10.5 per cent, 10.3 per cent and 4.9 per cent of the total circulation respectively.

Circulation under Common Ownership

The circulation of news interest weeklies owned by common ownership units registered a sharp increase of 23.9 per cent in 1967 as compared to the preceding year. The circulation of dailies owned by common ownership units rose by 6.8 per cent during the year. The circulation of dailies followed the ascending trend during the past quinquennium, an improvement of 40 per cent having been recorded during the year.

Bigger Units and News-Interest Papers

The largest number of news-interest papers owned by a single common ownership unit in 1967 was 19 by the Express Group of Newspapers which also included 13 dailies commanding an overall circulation of 7.86 lakhs per publishing day, which is the highest among dailies of the common ownership units in India. The Bennett, Coleman & Co. Ltd. (10 papers) commanded the second largest circulation of 7.12 lakhs which includes 7 dailies claiming a circulation of 4.63 lakhs per publishing day. The third place according to size of circulation was enjoyed by the Thanthi Group with 12 papers—all dailies having a total circulation of 4.26 lakhs.

The seven dailies belonging to Bennett, Coleman & Co., even though less in number, commanded a higher circulation than the 12 dailies of the Thanthi Group. The Hindustan Times Group of eight papers had a combined circulation of 2.85 lakhs.

In 1967 the combined circulation of 142 dailies owned by 62 common ownership units (for which data were available) represented 74.3 per cent of the total circulation of the daily Press in India as compared to 137 dailies, owned by 57 common ownership units of 1966.

Papers owned by Political Parties : The total number of papers owned by the various political parties was 76 at the end of the year 1967. The combined circulation of the papers (for which data were available) was 1.21 lakhs. Newspapers owned by the Communist Parties of India had the highest circulation (65,651) amongst the newspapers published by political parties, followed by the Congress Party (which commanded 33,875 circulation).

The Indian National Congress owned 35 papers, the Communist Parties of India 21, the P.S.P. 4 with a circulation of 2,380 copies. The remaining 16 belonged to other political parties.

The total number of dailies published by various political parties was 11 at the end of 1967. Of these four belonged to the Indian National Congress, three to the Communist Parties of India and four to other political parties.

Government Publications : There were 378 papers in 1967 published by the various Government Departments (including autonomous bodies functioning under the Government). Out of these, 207 were published by the Central Government and 171 by State Governments/ Union Territory Administrations. The total circulation commanded by these papers was 6.79 lakhs.

NEWSPAPERS

At the end of 1967, there were 9,315 newspapers and periodicals in India including 646 dailies, 2,697 weeklies, 961 fortnightlies, 3,772 monthlies, 799 quarterlies, 316 bi-monthlies, half-yearlies etc. and 124 annuals against 8,640 newspapers and periodicals comprising 601 dailies, 2,403 weeklies, 870 fortnightlies, 3,603 monthlies, 748 quarterlies, 295 bi-monthlies, half-yearlies, etc. and 120 annuals in 1966.

Apart from the 15 principal languages, the Indian Press had newspapers in 39 other languages including seven languages which found place in bilingual or multilingual newspapers. Dailies appeared in five such languages. The Indian languages include Konkani, Manipuri, Khasi, Lushai (Mizo), Maithili, Santhali, Bhojpuri, Garo, Rajasthani, Thado/Kuki, Hmar, Kashmiri, Angami Naga, Hindustani, Paite, Tangkhul Naga, Dogri, Kabui, Zou, Haroti, Bundelkhandi, Halabi, Magahi, Pnar and Pali.

The foreign languages in which newspapers were published are Arabic, Burmese, Chinese, French, Indonesian, Italian, Nepali, Portuguese, Pushto, Persian, Spanish, Swahili, Syriac and Tibetan.

Language-wise the number of newspapers in 1967 was English 1,958 (68 dailies), Hindi 2,207 (193 dailies), Assamese 23 (3 dailies), Bengali 595 (17 dailies), Gujarati 546 (42 dailies), Kannada 229 (34 dailies), Malayalam 310 (44 dailies), Marathi 550 (52 dailies), Oriya 86 (6 dailies), Punjabi 188 (15 dailies), Sanskrit 31, Sindhi 63 (5 dailies), Tamil 403 (28 dailies), Telugu 314 (15 dailies), Urdu 864 (90 dailies), bilinguals 691 (23 dailies), multilinguals 168 (2 dailies) and other languages 99 (9 dailies).

* Including tri- and bi-weeklies.

The circulation of dailies* languagewise in lakhs in 1967 is as follows: English 17·66, Hindi 9·60, Tamil 7·54, Malayalam 6·88, and Marathi 6·11.

Hindi (12·21 lakhs) claimed the highest circulation among weeklies in 1967 followed by Tamil (10·49 lakhs), English (9·95 lakhs) and Malayalam (5·28 lakhs).

Metropolitan Press: More than one-third (34·2 per cent) of the Press was located in the metropolitan cities, Bombay, Calcutta, Delhi and Madras; 29·1 per cent in over one lakh population cities, 23·8 per cent in smaller cities and 12·9 per cent in State capitals. In regard to circulation, however, the metropolitan press claimed more than half (51·8 per cent) of the total circulation (252·36 lakhs) of all newspapers in 1966 which represents the latest available final circulation statistics.

In 1967, the largest number of dailies, 287 out of 646 (44·4 per cent), was published from bigger cities, 123 from smaller towns, 121 from state capitals, and 115 from metropolitan cities.

As many as 68·1 per cent of English newspapers were located in metropolitan cities and only 5·4 per cent of such papers appeared from small towns in 1967. Next to English, Bengali had the highest degree of concentration in the metropolitan cities.

DAILIES

The number of dailies enjoying a circulation of above one lakh was 16 in 1967 compared to 14 in 1966 and 13 in 1965. The names of such dailies with the centre of publication in 1967 according to the languages are given below:

English :	Circulation
	1967
<i>The Times of India</i> (Bombay)	1,47,971
<i>The Hindu</i> (Madras)	1,42,160
<i>Statesman</i> (Calcutta)	1,34,350
<i>Hindustan Times</i> (Delhi)	1,20,505
<i>Amrita Bazar Patrika</i> (Calcutta)	1,12,140
<i>Indian Express</i> (Bombay)	1,05,735
Hindi :	
<i>Nav Bharat Times</i> (Delhi)	1,12,720
<i>Hindustan</i> (New Delhi)	1,05,735
Bengali :	
<i>Ananda Bazar Patrika</i> (Calcutta)	1,92,124
<i>Jugantar</i> (Calcutta)	1,43,279
<i>Basumati</i> (Calcutta)	1,20,502†
Malayalam :	
<i>Malayala Manorama</i> (Kottayam)	1,59,816
<i>Matrubhumi</i> (Calicut)	1,11,516
<i>Matrubhumi</i> (Ernakulam)	1,01,126
Marathi :	
<i>Lokasatta</i> (Bombay)	1,31,965
Tamil :	
<i>Thanthi</i> (Madras)	1,21,860

Multi-edition Dailies: According to the data received for 1967, 24 multi-edition dailies with 67 units enjoyed a total circulation of 24·65 lakhs, accounting for 36·9 per cent of the total circulation of all dailies in India as in the previous year. *The Indian Express* continued to have the largest number of editions as also circulation. A list of multi-edition dailies commanding an overall circulation of over one lakh in 1967 along with comparative data for 1966 within brackets is given below. The names of the centres of publication are given within brackets after the names of the papers: *Indian Express* (Delhi, Bombay

Madras, Madurai, Vijayawada and Bangalore) 3,94,486 (3,62,336); *Thanthi* (Madras, Madurai, Coimbatore, Tirunelveli and Tiruchirapalli) 2,68,501 (2,65,940); *Matrubhumi* (Calicut and Ernakulam) 2,12,642 (1,97,184); *The Times of India* (Delhi and Bombay) 1,97,341 (2,11,096); *Malayala Manorama* (Kottayam and Calicut) 1,95,943 (1,68,818); *Statesman* (Calcutta and Delhi) 1,86,105 (1,54,430); *Nav Bharat Times* (Delhi and Bombay) 1,61,179 (1,60,412); *Dinamani* (Madras and Madurai) 1,34,735 (1,35,954).

PERIODICALS

The total circulation enjoyed by 4,717 periodicals@ in 1967 was 152 lakhs. From 8,039 in 1966 the number of periodicals in the country rose to 8,669 in 1967 recording an increase of 7·8 per cent. The total number of periodicals had increased by 25·9 per cent during the period of five years ending 1967. The circulation of these papers had recorded an increase of 6·9 per cent in 1966 in comparison to 1962.

In 1967, periodicals in English commanded the largest circulation (37·85 lakhs) followed by Hindi (37·27 lakhs) and Tamil (17·35 lakhs). Sanskrit had the smallest periodical publication (5,000). In number, periodicals in Hindi were the largest (2,017) with English (1,890) coming next. Next to English came Urdu (774) and Bengali (568).

The various State Governments and the Central Government published a total number of 377 periodicals at the end of 1967. Of these monthlies accounted for 48·5 per cent, quarterlies 26·8 per cent and all other periodicals 24·7 per cent. The various departments of the Central Government published 54·9 per cent of these periodicals and the State Governments 45·1 per cent. Publications in English language commanded the largest share 47·7 per cent followed by Hindi 21·7 per cent.

On the basis of data available, Government periodicals claimed a circulation of 6·78 lakh copies or 4·5 per cent of the total circulation of all periodicals in 1967 as compared to 9 lakhs in 1966.

Names of periodicals having a circulation of over one lakh in the English and Tamil languages and over 50,000 in other languages:

	Circulation
	1967
English :	
<i>Blitz News Magazine</i> , Weekly (Bombay) ..	2,01,116
<i>Readers' Digest</i> , Monthly (Bombay) ..	1,49,086
<i>Filmfare</i> , Fortnightly (Bombay) ..	1,20,895
Hindi :	
<i>Kalyan</i> , Monthly (Gorakhpur)	1,49,314
<i>Dharmayug</i> , Weekly (Bombay)	1,20,591
<i>Chandamama</i> , Monthly (Madras)	73,002
<i>Saptahik Hindustan</i> , Weekly (Delhi) ..	68,233
<i>Blitz</i> , Weekly (Bombay)	63,673
Tamil :	
<i>Kumudam</i> , Weekly (Madras)	3,20,658
<i>Ananda Vikatan</i> , Weekly (Madras) ..	1,71,818
<i>Vaaratari Rani</i> , Weekly (Madras) ..	1,80,754
<i>Kalkandu</i> , Weekly (Madras)	1,18,232
Malayalam :	
<i>Malayala Manorama</i> , Weekly, (Kottayam)	2,35,881
<i>Mathrubhumi</i> , Weekly (Kozhikode) ..	1,05,653
<i>Cinema Masika</i> , Monthly (Kottayam) ..	50,083
Gujarati :	
<i>Jan Kalyan</i> , Monthly (Ahmedabad) ..	84,986

* Includes tri- and bi-weeklies.

† Under verification.

for which circulation data were furnished by publisher's by the date.

‡ Started in 1967.

@ Figures relate to the number of papers

Bengali :

<i>Desh</i> , Weekly (Calcutta)	67,210
<i>Betar Jagat</i> , Fortnightly (Calcutta)	53,825

Telugu :

<i>Andhra Prabha Illustrated Weekly</i> , Weekly (Madras)	1,17,141
<i>Andhra Sachitra Vara Patrika</i> , Weekly (Madras)	62,037

Marathi :

<i>Swaraj</i> , Weekly (Poona)	54,106
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Urdu :

<i>Shama</i> , Monthly (Delhi)	62,417
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Kannada :

<i>Sudha</i> , Weekly (Bangalore)	60,631
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TABLE 1. DISTRIBUTION OF NEWSPAPERS & PERIODICALS (STATE AND PERIODICITY) (DECEMBER 31, 1967)

State/Union Territory	Dailies	Tri- and bi-weeklies	Weeklies	Fort-nightlies	Monthlies	Quarterlies	Bi-monthlies, half yearlies, etc.	Annuals	Total 1967	Total 1966
Andhra Pradesh ..	23	3	124	80	227	24	6	3	490	460
Assam	7	3	23	5	24	6	3	1	72	91
Bihar	10	2	62	15	61	17	3	2	172	167
Gujarat	35	3	128	62	228	27	11	1	495	461
Haryana	6	1	82	21	55	4	6	—	175	147
Jammu & Kashmir ..	15	1	45	9	5	—	1	—	76	66
Kerala	50	—	57	40	248	29	5	4	433	403
Madhya Pradesh ..	54	8	140	21	66	18	4	1	312	293
Maharashtra	84	8	373	105	596	151	72	63	1,452	1,319
Mysore	46	4	105	22	138	23	9	2	349	373
Orissa	7	—	22	8	47	9	6	2	101	94
Punjab	26	1	152	44	147	15	8	2	395	379
Rajasthan	22	3	197	56	104	24	4	1	411	344
Tamil Nadu	32	1	102	88	396	68	27	10	724	713
Uttar Pradesh	99	15	666	143	396	58	27	2	1,406	1,240
West Bengal	29	4	197	135	462	145	63	15	1,050	993
Delhi	24	—	169	88	518	153	54	10	1,016	932
Himachal Pradesh ..	—	—	11	6	10	3	1	1	32	26
Manipur	6	—	3	4	7	1	2	2	25	25
Tripura	2	1	7	—	—	—	—	—	10	10
Nagaland	—	—	—	1	1	1	—	—	3	3
Pondicherry	—	—	5	1	7	10	—	—	23	20
Goa	8	—	10	2	9	—	1	—	30	30
Chandigarh	2	—	17	5	20	13	2	2	61	49
Andaman & Nicobar ..	1	—	—	—	—	—	1	—	2	2
TOTAL for 1967 ..	588	58	2,697	961	3,772	799	316	124	9,315	—
TOTAL for 1966 ..	549	52	2,403	870	3,603	748	295	120	—	8,640

TABLE 2. LANGUAGE AND PERIODICITY-WISE DISTRIBUTION ON DECEMBER 31, 1967

Language	Dailies	Tri- and bi-weeklies	Weeklies	Fort-nightlies	Monthlies	Quarterlies	Bi-monthlies, half yearlies etc.	Annuals	Total 1967	Total 1966
English	61	7	247	157	844	407	175	60	1,958	1,843
Hindi	174	19	959	233	707	82	26	7	2,207	1,941
Assamese	2	1	6	2	9	2	1	—	23	30
Bengali	13	4	137	78	245	81	23	4	585	550
Gujarati	38	4	132	62	265	30	11	4	546	514
Kannada	31	3	78	12	92	10	2	1	229	244
Malayalam	44	—	47	35	178	4	1	1	310	279
Marathi	48	4	192	41	206	25	11	23	550	490
Oriya	6	—	20	6	44	5	4	1	86	70
Punjabi	15	—	80	6	78	7	2	—	188	184
Sanskrit	—	—	2	3	13	11	2	—	31	29
Sindhi	5	—	22	4	28	2	1	1	63	63
Tamil	28	—	73	67	225	8	2	—	403	414
Telugu	14	1	75	56	161	7	—	—	314	302
Urdu	83	7	377	105	276	9	5	2	864	785
Bilingual	16	7	194	65	294	73	32	10	691	639
Multi-lingual	1	1	38	16	67	21	14	10	168	162
Others	9	—	18	13	40	15	4	—	99	102
TOTAL for 1967 ..	588	58	2,697	961	3,772	799	316	124	9,315	—
TOTAL for 1966 ..	549	52	3,603	870	2,606	748	295	120	—	8,640

TABLE 3. CIRCULATION OF NEWSPAPERS AND PERIODICALS (LANGUAGE & PERIODICITY-WISE) DURING 1967

Figs. in 000's

Language	Dailies	Tri- and bi-weeklies	Weeklies	Fort-nightlies	Monthlies	Quarterlies	Bi-monthlies etc.	Annuals	Grand Total
English ..	17,52	14	9,95	4,77	17,72	3,51	1,45	45	55,51
Hindi ..	9,55	5	12,21	2,22	16,88	29	61	6	41,87
Assamese ..	17	8	52	1	5	—	2	—	85
Bengali ..	4,71	22	2,95	1,13	2,81	39	5	1	12,29
Gujarati ..	4,60	22	3,96	60	5,25	31	5	30	15,29
Kannada ..	2,03	3	1,92	8	1,68	4	2	—	5,80
Malayalam ..	6,88	—	5,28	44	4,03	2	2	—	16,67
Marathi ..	6,07	4	2,76	28	3,41	20	16	73	13,65
Oriya ..	77	—	23	7	29	2	—	—	1,38
Punjabi ..	34	—	1,29	7	1,00	3	3	—	2,76
Sanskrit ..	—	—	1	1	3	—	—	—	5
Sindhi ..	21	—	44	5	32	1	—	—	1,03
Tamil ..	7,54	—	10,49	1,70	5,02	13	1	—	24,89
Telugu ..	1,85	—	2,59	58	2,29	4	—	—	7,35
Urdu ..	3,47	3	3,39	53	3,96	2	4	5	11,49
Bilingual ..	13	11	1,13	62	3,19	44	12	2	5,76
Multi-lingual ..	1	—	31	6	63	17	6	6	1,30
Others ..	8	—	30	6	33	16	—	—	93
TOTAL ..	65,93	94	59,73	13,28	68,89	5,78	2,64	168	2,18,87

TABLE 4. STATE-WISE DISTRIBUTION OF OWNERSHIP OF NEWSPAPERS AS ON DECEMBER 31, 1967

State/Union Territory	Government		Individual	Joint Stock Company		Firm or Partnership	Trust	Co-operative Society	Society or Association including religious societies	Educational Institutions	International organisation	Organ of Political Party	Total
	Central†	State†		Public Ltd.	Private Ltd.								
Andhra Pradesh ..	3	13	344	6	6	19	6	4	83	4	—	2	490
Assam ..	1	3	32	—	2	9	—	4	16	2	—	3	72
Bihar ..	2	14	84	—	13	15	8	1	33	1	—	1	172
Gujarat ..	1	6	255	19	7	43	22	9	119	10	—	4	495
Haryana ..	—	1	146	—	1	5	3	—	14	4	—	1	175
Jammu and Kashmir ..	—	2	61	—	1	2	—	—	7	1	—	2	76
Kerala ..	4	10	247	19	8	25	6	4	105	1	—	4	433
Madhya Pradesh ..	—	5	217	2	5	27	4	11	33	7	—	1	312
Maharashtra ..	14	9	711	53	69	136	48	19	345	35	2	11	1,452
Mysore ..	2	6	197	6	12	19	15	1	88	1	—	2	349
Orissa ..	1	5	57	1	1	6	3	3	21	2	—	1	101
Punjab ..	—	7	312	4	2	9	2	4	42	10	—	3	395
Rajasthan ..	—	8	311	—	30	10	4	3	59	11	—	2	411
Tamil Nadu ..	11	12	395	22	22	50	17	1	180	6	—	2	724
Uttar Pradesh ..	7	32	1,048	16	22	66	19	5	184	1	—	6	1,406
West Bengal ..	25	12	574	1	57	67	4	3	280	17	—	10	1,050
Delhi ..	135	5	467	22	30	59	14	9	231	25	8	11	1,016
Himachal Pradesh ..	—	45	21	—	—	—	1	—	5	1	—	—	32
Manipur ..	—	1	5	—	—	1	—	1	11	2	—	4	25
Tripura ..	—	1	8	—	—	—	1	—	—	—	—	—	10
Nagaland ..	—	—	2	—	—	—	—	—	1	—	—	—	3
Pondicherry ..	—	1	9	—	—	—	10	—	3	—	—	—	23
Goa ..	—	—	16	—	3	7	—	—	4	—	—	—	30
Chandigarh ..	1	12	32	—	—	—	—	3	6	6	—	1	61
Andaman & Nicobars ..	—	2	—	—	—	—	—	—	—	—	—	—	2
TOTAL ..	207	171	5,551	171	264	575	187	91	1,870	147	10	71	9,315

† Includes newspapers published by autonomous bodies under Central Govt. State Governments.

‡ Includes newspapers published by Local bodies under

NEWSPRINT

For newsprint, the staple raw material for the production of a newspaper, India has to depend largely on foreign countries.

The quantity of newsprint imported for the year 1967-68 was 1,20,100 tonnes. An additional quantity of 31,563 tonnes produced by the Nepa Mills was also available for distribution. In addition to import and indigenous production, 20,000 tonnes of excise duty free printing and writing paper was also available for allocation to dailies (since 1964-65) which is given in lieu of newsprint to make up their entitlement. Newsprint is imported from Canada, Scandinavian countries, USSR, Czechoslovakia, Poland, the German Democratic Republic and U.S.A. under commercial purchase, trade plans and 'Aid' allocations.

During the year ending January 31, 1968, a total quantity of 1,70,972.45 tonnes of newsprint, including duty free printing and writing paper was allocated to 1,364 newspapers and periodicals. The largest share 87.8 per cent was allocated to dailies, followed by 9 per cent in the case of weeklies, 2.5 per cent for monthlies and 0.7 per cent for other periodicals.

Hindi with 329 newspapers had the largest number of newsprint users in 1967-68, followed by English (166), Gujarati (157), Urdu (156) and Marathi (141).

Among the daily newspapers, Hindi again topped the number (70) of newspapers receiving newsprint followed by English and Urdu (45 each).

CIRCULATION CLAIMS

Circulation checks conducted during 1967 resulted in a national saving of about Rs. 10.70 lakhs in foreign exchange, bringing the total foreign exchange saving since 1962 to Rs. 486.84 lakhs. Circulation claims of 411 newspapers and periodicals located in 32 different centres of publication were investigated and the quantum of exaggeration detected was 4,21,283 copies per publishing day.

PRESS LAWS

In general the laws which affect the Press in India today are Press and Registration of Books Act, 1867; the Indian Official Secrets Act No. XIX of 1923; Sections 124-A, 153-A, 171-G, 255, 292, 293, 294-A, 295-A, 489-A, 499-502 and 505 of the Indian Penal Code; Sections 99-A-99-G and 108 of the Criminal Procedure Code; Sections 81, 84 and 87 of the Indian Evidence Act No. I of 1872; Sections 11, 12, 44, 52 of the Customs Act No. LII, 1962; Sections 19, 20, 26, 27-A-27-D of the Indian Post Office Act No. VI of 1898; Section 5 of the Indian Telegraph Act No. XIII of 1885; Sections 40, 52 and 53(1)(b) of the Patents and Designs Act No. II of 1911; the Police (Incitement to Disaffection) Act, 1922; Section 69 of the Trade Marks Act No. V of 1940; the Contempt of Courts Act, 1952 (Act XXXII of 1952); The Indian Post Office (Amendment) Act LII of 1960; Article 19(1)(a) and (g) and Clause (2) and (6) of the same Article of the Constitution of India. The amendment to Article 19 (1) (a) reads: "Nothing in Sub-clause (A) of Clause 1 (the Citizen's Right to Freedom of Speech and Expression) shall affect the operation of any existing law or prevent the State from making any law in so far as such law imposes reasonable restrictions on the exercise of the right conferred by the said sub-clause in the interest of the sovereignty and integrity of India, the security of the State, friendly relations with foreign States, public order, decency, morality, or in relation to contempt of court, defamation or incitement to an offence (Arts. 105 and 194 of the Constitution of India); the Tax on Newspapers (Sales and Advertisement)

ments) Repeal Act No. XXVIII of 1951; S. 7 of the Collection of Statistics Act (XXXII of 1953); the Press and Registration of Books (Amendment) Act No. 55 of 1955.

The Delivery of Books (Public Libraries) Act 27 of 1954.

The Drugs and Magic Remedies (Objectionable Advertisements) Act 21 of 1954. This Act controls the advertisement of drugs in certain cases and prohibits the advertisement for certain purposes of remedies alleged to possess magic qualities.

The Criminal Procedure Amendment Act contains a section (198B) which empowers the Government to prosecute a newspaper for defamation of public servants.

The Working Journalists (Industrial Disputes) Act (No. 1 of 1955). The Act extends the provisions of the Industrial Disputes Act, 1947 to working journalists.

The Parliamentary Proceedings (Protection of Publication) Act (No. 24 of 1956). It protects the publication of a substantially true report of any proceedings of either House of Parliament.

Section 11 of the Prize Competitions Act (Act 2 of 1955) contains rules regarding printing and publishing tickets, coupons, etc. in connection with prize competitions.

The Working Journalists Conditions of Service and Miscellaneous Provisions Act (Act 45 of 1955) regulates conditions of service of working journalists.

The Punjab Special Powers (Press) Act was passed on 5th September 1955. It empowers the authorities to control the irresponsible activities of the press indulging in and fostering communal disharmony, dissemination of 'violent' news and pernicious propaganda of a communal nature.

The Newspaper (Price and Page) Act 45 of 1956.

The Young Persons (Harmful Publications) Act No. 93 of 1956.

The Copyright Act 14 of 1957.

The Indian Post Office (Amendment) Act No. 7 of 1958.

The Working Journalists (Fixation of Rates of Wages) Act 29 of 1958.

The Press and Registration of Books (Amendment) Act No. 26 of 1960.

The Newspaper (Price and Page) Continuance Act No. 36 of 1961.

The Indian Penal Code (Amendment) Act No. 41 of 1961.

The Drugs and Magic Remedies (objectionable advertisements) Amendment Act No. 42 of 1961.

Defence of India Act No. 51 of 1962.

The Working Journalists Amendment Act No. 65 of 1962.

The Press and Registration of Books (Amendment) Act No. 16 of 1965.

The Press Council Act No. 34 of 1965.

NEWSPAPERS

The following is a list of some English dailies with the names of the editors :

Amrita Bazar Patrika, Tushar Kanti Ghosh : Calcutta.

Assam Tribune, Satish Ch. Kakati : Gauhati.

Deccan Chronicle, K. R. Pattabhiram (*Mg. Ed.*) : Secunderabad.

Deccan Herald (Mg. Editor): K. A. Nettakallappa. (*Editor*): V. B. Menon : Bangalore.

Eastern Times, J. B. Patnaik : Cuttack.
Economic Times, Dr. D. K. Rangnekar : Bombay.
Evening News of India, Sham Lal : Bombay.
Financial Express, G. M. Laud : Bombay.
Free Press Bulletin, A. B. Nair : Bombay.
Free Press Journal, A. B. Nair : Bombay.
Hindu, G. Narasimhan (*Mg. Editor*) : G. Kasturi (*Editor*) : Madras.
Hindusthan Standard, Sudhanshukumar Basu : Calcutta.
Hindustan Times, S. Ajit Bhattacharjee : New Delhi.
Hitavada, A. D. Mani (*Chief Editor*) : Nagpur.
Indian Express, Frank Moraes (*Editor-in-Chief*) : Bombay, Delhi, Madras, Madurai, Vijayawada, Bangalore and Ahmedabad.
Indian Nation, Braj Nandan Azad : Patna.
Mail, T. S. Subramaniam (*Mg. Editor*) : Madras.
Nagpur Times, A. G. Sheorey (*Mg. Editor*) ; S. B. Bedarkar (*Editor*) : Nagpur.
National Herald, M. Chalapathi Rau : Lucknow.
Navhind Times, K. S. K. Menon : Panaji.
Patriot, Edatata Narayanan : New Delhi.
Pioneer, S. N. Ghosh : Lucknow.
Searchlight, Subhas Chandra Sarker : Patna.
Statesman, K. Rangachari (*Ag. Editor*) : Calcutta and New Delhi.
Times of India, Sham Lal : Bombay, New Delhi and Ahmedabad.
Tribune, R. Madhavan Nair : Ambala.
Western Times, Ramu Patel : Ahmedabad.

INDIAN NEWS AGENCIES

The following list is not exhaustive :

Press Trust of India (P.T.I.).
 357, Dr. Dadabhai Naoroji Road, Bombay.
 NAFEN—Near and Far East News (Asia) Ltd.,
 Temple Bar Bldg., 70, Forbes Street, Bombay 1.
 Dhiman Press of India,
 Ludhiana (Punjab).
 Rao's Press Features
 160, VII Block, Jayanagar, Bangalore 11.
 United News of India, 9, Rafi Marg, New Delhi 1.
 Hindustan Samachar, 17-A, Shanker Market, New Delhi 1.
 India News & Feature Alliance, Jeevan Deep Bldg.,
 Parliament St., New Delhi 1.
 India Press Agency, IENS Bldg., Rafi Marg, New Delhi.
 Eastern India News Agency, 199/A, Keshab Chandra
 Sen St., Calcutta 9.
 Newsfeatures of India, Anand Kunj, Linking Road,
 Bombay-54.
 Publication Syndicate, 14, Hanuman Road, New Delhi 1.

FOREIGN NEWS AGENCIES

The following list is not exhaustive :

Agence France Presse : Bureau De New Delhi, 1, Curzon
 Road, New Delhi.
 Associated Press (of America) : 19, Narendra Place, New
 Delhi.
 Reuters : 27, Prithviraj Road, New Delhi.
 Tass News Agency of U.S.S.R. : 155, Jor Bagh, New
 Delhi 3.
 United Press International : I.E.N.S. Building, Rafi Marg,
 New Delhi.

INFORMATION SERVICES

Indian Information Service

Indian Government publicity work is carried out chiefly through the following units of the Ministry of Information and Broadcasting :

1. All-India Radio, 2. Press Information Bureau, 3. Publications Division, 4. Films Division, 5. Directorate of Advertising and Visual Publicity, 6. Research and Reference Division, 7. Directorate of Field Publicity, 8. Song and Drama Division.

PRESS INFORMATION BUREAU

The Press Information Bureau functions as a link between the Government of India and the public through the medium of the Press. It provides to the Press factual information about the activities of the Government and keeps the Government informed about public reactions, as expressed in the Press, to Government's policies and performance.

The Bureau has its offices in Srinagar, Jammu, Jullundur, Jaipur, Bhopal, Lucknow, Varanasi, Patna, Calcutta, Gauhati, Cuttack, Hyderabad, Bangalore, Madras, Cochin, Trivandrum, Poona, Bombay, Nagpur and Ahmedabad.

The Bureau's news, feature and reference services are provided in the following languages :

English, Hindi, Urdu, Gujarati, Marathi, Tamil, Bengali, Telugu, Malayalam, Assamese, Oriya, Punjabi, Kannada and Kashmiri.

Besides issuing hand-outs, Press Notes and Press Communiques, the Bureau releases news photographs, articles and illustrated features. It also conducts tours of Press representatives to development projects and other centres of interest.

Principal Information Officer : M. L. Bhardwaj.

DIRECTORATE OF ADVERTISING AND VISUAL PUBLICITY

The Directorate of Advertising & Visual Publicity functions as the central organisation for the press advertising and visual publicity campaigns of the various Ministries of the Government of India (excepting Railways), their attached and subordinate offices and a number of autonomous undertakings of the Government of India.

The Directorate has an Exhibition Division which, through its central and regional units, organises exhibitions depicting progress of the Five-Year Plans and other themes of national importance.

Director : Brig. R. Sreenivasan.

British Broadcasting Corporation

Post Box No. 109, New Delhi.

British Information Services

(Chanakyapuri, New Delhi 21).

U.S. Information Service

Bahawalpur House, Sikandra Road, New Delhi.

BOMBAY OFFICE

("International", 16, Queen's Road Estate).

CALCUTTA OFFICE

(7, Jawaharlal Nehru Road, Calcutta 13).

MADRAS OFFICE

(158, Mount Road, Madras 2.)

U.S. INFORMATION SERVICE LIBRARY

24, Curzon Road, New Delhi.

AMERICAN LIBRARY (USIS)

150-B, Mount Road, Madras 2.

American Cultural Centre (USIS)

Main Road, Trivandrum.

American Cultural Centre (USIS)

Sri Narasimha Raja Square, Bangalore 2.

PRESS ASSOCIATIONS, SOCIETIES

All-India Newspaper Editors' Conference, 50-51, Theatre Communication Bldg., Connaught Place, New Delhi-1; *President*, D. R. Mankekar; *Secretary General*, K. Subramaniam; *Hon. Treasurer*, Mrs. Mukul Bannerjee.

The Indian & Eastern Newspaper Society,† IENS Buildings, Rafi Marg, New Delhi-1: *President*: M. L. Ganguli (*Jugantar*); *Dy. President*: M. Yunus Delhvi (*Shama*); *Vice-President*: C. A. Narayan (*Sunday Standard*); *Hony. Treasurer*: J. M. D'Souza (*Illustrated Weekly of India*); *Secretary*: R. D. Seth.

Indian Federation of Working Journalists, Flat No. 29, New Central Market, Connaught Circus, New Delhi 1. *President*: V. N. Bhushan Rao; *Secretary-General*, S. B. Kolpe; *Treasurer*, P. K. Shah.

Indian Languages Newspapers' Association (Janmabhoomi Bhavan, Ghoga Street, Fort, Bombay).

Press Owners' Association, Bombay (196-B, Gaiwadi, Girgaon, Bombay).

Southern India Journalists' Federation (15 Ritchie Street, Mount Road, Madras 2).

FEATURE SYNDICATES

King Features Syndicate (235, East 45th Street, New York 17): *Agents*: Advertising Films of India Private Ltd., 4th Floor, Khorshed Bldg., Sir Phirozeshah Mehta Road, Bombay 1 and 21, Princess Street, Calcutta 13.

PRESS CLIPPINGS

All-India Press Cutting Service: D-2, Amerchand Mansions, Mayo Road, Bombay 1.

Indian Press Service: 16A, Friends Colony, New Delhi 14.

The Asiatic Press-Clippings Service: P. B. No. 1663, 91, The Mall, Kingsway, Delhi-9.

International Clipping Service: Lakshmi Building, Sir Pherozeshah Mehta Road, Bombay-1.

Oriental Languages Bureau: Lakshmi Building, Sir Pherozeshah Mehta Road, Fort, Bombay 1.

The Universal Press Service: 34, General Patters Road, Madras 2.

PRESS PHOTO AGENCIES

Bombay Photo Stores Private Ltd.: 33-34, Park Mansions, Park Street, Calcutta.

News Photo Flash: 11-12, Scindia House, New Delhi.

Press Photo Bureau: 374, Pycrofts Road, Royapetta P.O., Madras 14.

Wage Boards for Working Journalists and Non-Journalists

Details of the Constitution and the recommendations of the Wage Boards, for Journalists and Non-Journalists were given in the 1968 Directory.

After the 57-day old strike by the newspaper employees for the implementation of the Non-Journalists' Wage Board Award, the Government of India referred on September 17, 1968, the dispute to a National Tribunal presided over by Mr. Justice B. N. Banerjee, a retired judge of the Calcutta High Court for adjudication.

Pending adjudication the employers had agreed to pay to employees in addition to their existing emoluments 75 per cent of the difference between the existing emoluments and the emoluments payable under the Wage Board recommendations. They had also agreed to protect the total emoluments so payable in fixing the pay of workers in the pay scales determined by the tribunal. At the time of writing this, the adjudication was continuing.

The recommendations of the Wage Board for Journalists have been practically implemented.

PRESS COUNCIL

The Press Council Bill was passed in Nov. 1965. The President has given his assent. The object of the Council shall be to preserve the liberty of the press and maintain and improve the standards of newspapers in India.

The Press Council was set up in Nov. 1966 with Justice J. R. Mudholkar as Chairman and 25 members.

The Press Council started functioning from the middle of November 1966, when the full complement of its membership was notified. The new Chairman Mr. N. Rajagopala Ayyangar took over on May 4, 1968. The Press Councils' first annual report was presented to the Parliament on Aug. 30, 1968 by the Minister for Information and Broadcasting.

The report said the present undefined state of the law of privileges had placed the press in an unenviable position in the matter of comments on the proceedings of Parliament.

In the opinion of the council, there might be no great difficulty in separating the issue of privileges concerning the press from the entire question of Parliamentary privileges.

The report also suggests legislative measures to facilitate honest and fair comment as well as faithful and accurate reporting of the proceedings of legislatures.

FOOD

FROM the point of view of food generally the position is roughly as follows: Surplus areas: Madhya Pradesh, Punjab, Haryana, Orissa, Andhra. Self-sufficient areas: U.P., Rajasthan, Tamil Nadu, Mysore, Assam. Deficit areas: Maharashtra, Gujarat, Himachal Pradesh, Bihar, West Bengal, Kerala, Kashmir, Tripura. Manipur is marginal.

The areas covered by the Punjab, Haryana and Madhya Pradesh (former Vindhya Pradesh) are generally surplus in wheat.

The areas covered by the following States are generally surplus in rice: Orissa, Madhya Pradesh, Andhra, Punjab.*

PRODUCTION

(See under main article "Agriculture")

* Composite State.

† The office bearers are as at the time of going to press (Feb. '69).

Total Internal Procurement and Issue of Foodgrains.

('000 met. tons)

Calendar Year	Procured by			Issued through		
	State	Centre	Total	State	Centre	Total
1965.. .. .	2,353	1,678	4,031	5,533	4,546	10,079
1966.. .. .	3,271	730	4,009	958	4,497	14,077
1967.. .. .	3,434	1,037	4,471	9,423	3,741	13,164

SUPPLY

The demand and supply of cereals from 1965-1967 :

('000 met. tons)

		1965	1966	1967(e)
Procurement		4,081	4,009	4,471
Opening Stocks in Godowns	States	2,353	3,279	3,434
	Centre	1,678	730	1,037
	Total	4,031	4,009	4,471
Offtake from Godowns	States	5,533	9,580	9,423
	Centre	4,546	4,497	3,741
	Total	10,071	14,077	13,164

(e) Figures for 1967 are provisional and subject to revision.

The balance sheet of foodgrains distributed by Governments during 1965, 1966 and 1967 was as follows :

('000 met. tons.)

		1965	1966	1967(a)
Opening Stock with States	.. .. .	486	973	1,332
Centre	.. .. .	530	1,106	884
Procurement	.. .. .	1,430	4,031	4,089
Imports	.. .. .	7,462	10,358	8,672
Stocks with States at the end of the year	.. .. .	473	1,332	1,421
Central Reserves at the end of the year	.. .. .	1,106	884	551

(a) Provisional.

At the end of Oct. 1967, the number of fair-price shops and ration shops in the country stood at 145,000 as against 139,000 in December 1966. The total population covered under statutory rationing at the end of 1967 was about 31 mill. and under informal rationing 245 mill. making a total of 276 million.

During 1966-67 procurement of rice (both on Central and State Govt. accounts) amounted to 24.69 lakh tons as against 31.37 lakh tons in 1965-66 which was higher than 1964-65 by about 2 lakh tons. This lower quantity in 1966-67 was due to overall shortfall in food production, larger retention by producers and traders at the village level. The purchase of wheat by Central and State Govts. during 1967-68 amounted to 8.30 lakh tons as against 1.98 lakh tons in 1966-67. In addition over 8.76 lakhs of coarse cereals were purchased against 6.6 lakh tons in the previous year.

IMPORTS (1965-67)

The imports over the years were as follows :

Figures in million tons and value in Rs. Crores respectively are: 1965: 7.462, 290.32; 1966: 10.358, 523.13. In 1967 the imports amounted to 8.67 mill. tons consisting of 0.453 mill. tons of rice, 6.348 mill. tons of wheat and 1.871 mill. tons of coarse grains valued at approximately Rs. 460.00 crores.

The imports of individual grains were as follows :

(in million metric tons)

		1965	1966	1967
Rice	.. .. .	0.783	0.7866	0.453
Wheat (including flour)	.. .. .	6.583	7.833	6.348
Others	.. .. .	0.096	1.738	1.871

Countries from which imports were obtained from 1965 to 1967 with quantity (in million metric tons) were as follows :

Country	Quantity		
	1965	1966	1967
U.S.A.	6.403	8.326	6.275
Australia	0.324	0.295	0.830
Canada	0.238	0.909	0.862
U.A.R.	0.040	0.051	0.094
Burma	0.204	0.393	0.147
Others	0.253	0.384	0.464
TOTAL	7.462	10.358	8.672

Countries from which wheat and rice were imported during the year 1967 : (quantity in million metric tons)

		Wheat and flour	Rice
U.S.A.	.. .. .	4.453	0.003
Australia	.. .. .	0.830	—
Burma	.. .. .	—	0.147
Canada	.. .. .	0.862	—
U.A.R.	.. .. .	—	0.094
Others	.. .. .	0.255	0.209
TOTAL	.. .. .	6.400	0.453

SEED

The Govt. of India has set up in 1963 a Central Seed Corporation to promote the production of improved seeds in the country by financial aid, technical guidance, organising marketing agencies and sponsoring training programmes in collaboration with Central and State Governments and other interests. (See under All-India Corporations for more details).

FERTILIZERS & MANURES

India's requirement of nitrogen fertilizer is placed at between 2 and 2.5 million tons. Minimum requirement would probably be estimated at 1.5 million tons on the basis of 30 lbs. per acre.

It is estimated that the use of one ton of fertilizer on an area of 75 acres results in an extra 10-ton production of foodgrain.

An Expert Committee under the chairmanship of Mr. B. Shivraman was appointed to examine the problems relating to production, pricing and distribution of fertilizers and the report was submitted in May 1965.

Consumption of Fertilizers

Plant Food	(met. tons)	
	1968	1969
	Consumption	Target
Nitrogen	11,50,000	17,00,000
Phosphoric Acid	4,00,000	6,50,000
Potash	2,00,000	4,50,000

The night soil compost scheme, which has now been introduced in Tamil Nadu, Rajasthan, Punjab, Orissa and Mysore, will cover 500 bigger panchayats, for which Central assistance has been given at the rate of Rs. 2,000 per panchayat.

A total number of 2,250 urban centres was also engaged in night soil compost production in the States.

Urban and Rural Compost

Year	Quantity (mill. tons)	
	Urban	Rural
1966-67	3.70	122.00
1967-68 (Expected)	3.9	139.00
1968-69 (Target)	4.6	148.00

Distribution of green manure seeds in parcels is encouraged in most States. A subsidy of Rs. 2 per maund is given to the State for multiplying green manuring seed. The coverage under green manuring during 1966-67 was estimated at 8.5 million hectares, while the anticipated coverage in 1967-68 is 8.9 million hectares and about 10.3 million hectares in 1968-69.

Mechanisation and Mechanised Farms

With a view to increasing mechanisation in agriculture the production of wheel type tractors has been stepped up. Wheeled tractors between 20 and 50 H.P. range are being manufactured by 5 manufacturing units with an installed capacity of 30,000 units per year.

There are already two Central Mechanised farms at Surat and Jelsar. Fifteen more such farms are going to be

set up with the help of U.S.S.R., one in each State. One has already started in Hirakud (Orissa).

THE FOOD PROBLEM

The *per capita* consumption in India of all food items in terms of calories compares as follows:—Canada: 3,140; U.S.A.: 3,150; U.K.: 3,270; Japan: 2,110; and India: 1,880.

The problem can be summed up in some such way as the following:—

The consumption of food grains and pulses in India has been increasing over the last three years faster than production.

The increase in population of eight million persons per year in itself will require one million tons of additional food grains each year. With an increase of the *per capita* intake of 100 calories per day, India would require an additional five million tons foodgrains per year.

Agreements (1967):

With U.S.A. under PL480 five agreements from (20-2-'67 to 30-12-'67) for 6.225 million tonnes of wheat/wheat flour and 1.775 million tonnes of milo/sorghum and on commercial account by five agreements (Jan. '67 to Nov. '67) for about 0.548 million tonnes of wheat/wheat flour were signed.

Under special food aid (gift) programme agreements were signed on 20-3-'67 and 25-7-'67 for 0.612 and 0.155 million tonnes of wheat/wheat flour with Canada and Australia respectively. Further commercial agreements (1967) with Canada and four agreements dated June 1967 to Nov. 1967 with Australia for 0.054 million tonnes and 0.426 million tonnes wheat/wheat flour were signed. Commercial agreements were signed in the first three months of 1967 with Thailand, U.A.R. and Canada and Nepal for the import of 0.01, 0.04, 0.01 and 0.004 million tonnes respectively of rice and through private parties 0.179 million (total 0.333 million tonnes).

Buffer Stocks

In view of the bright prospect of food grains production during 1967-68, it proposed to build a buffer stock of three million tonnes of food grains by the end of Oct. 1968.

Distribution of foodgrains from Government stocks channelled through 153,000 fair price/ration shops.

The total population covered under statutory rationing at the end of 1967 was about 31 million and under informal rationing 245 million making a total of 276 million.

Rationing: The principle of statutory rationing has been accepted by all States. It was decided in Aug. 1965 that in cities of one million population, later modified into one lakh and above, rationing should be introduced. In Kerala informal rationing was introduced from Nov. 1, 1964; Greater Calcutta throughout 1965 (extended to Asansol, Durgapur, Siliguri industrial complex from Feb. 1966), Madras and Coimbatore (Oct. 1965), Delhi (Dec. 8, 1965), Hyderabad, Secunderabad & Vishakapatnam (Feb. 1966) and Kanpur Feb. 16, 1966.

With the improvement of supplies statutory rationing was discontinued in Siliguri (from 1st Jan. 1968) and Kanpur (mid Jan. 1968). In Delhi also movement of rice and wheat from the rural areas and their sale in the open market in the rationed areas has been permitted with effect from Feb. 21, 1968.

Distribution (1965-67)

mill. Tonnes.

Year	Rice	Wheat	Other grains	Total
1965 ..	3·586	5·939	0·554	10·079
1966 ..	4·132	8·134	1·811	14·077
1967 ..	3·010	7·366	2·788	13·164

WAREHOUSES

The Central Warehousing Corporation has set up 77 Central Warehouses (upto the end of 1967) with a capacity of 2,71,397 tonnes in 16 States. The State Warehouses during the time were 615 with a total capacity of 8,72,070. In addition special warehouses (on guarantee basis) were set up in Maharashtra with a total capacity of over 50,000 tonnes and by Food Corporation (in Andhra and Tamil Nadu for over 4,80,000 tonnes capacity).

As many as 80 types of commodities are now stored in the warehouses including foodgrains, oilseeds, cattle fodder, raw cotton, cotton seed, raw jute, turmeric, gur, ginger, pepper, cardamom, coffee seeds, chicory, fertilizers and food products.

Food Corporation

The Food Corporation was set up as a statutory body in Jan. 1965 to function in the long term comprehensive strategy for solving the food problem. (See under "All India Corporations" for more details.

Subsidiary Foods

The Food and Nutrition Board has initiated investigations for the development of cotton-seed protein for human consumption, fortification of common salt with calcium and development of food from green vegetation and further work on parboiled rice and vegetable milk powder.

Demonstration-cum-community canning and food preservation centres have been established one each at Delhi, Bombay, Madras and Calcutta. Four mobile food and nutrition extension units for the systematic campaign for promotion and popularisation of food preservation technique, suitable dietary habits, cost balanced diet and scientific technique of cookery, proper utilisation of food etc. with Headquarters at Delhi, Bombay, Calcutta and Madras, have also started functioning. The three Institutes of Catering Technology and Applied Nutrition at Calcutta, Bombay & Madras and the Institute of Hotel Management, Catering and Nutrition (Delhi) imparted training for diploma and Craftsman course. Food Craft Centres, one each in Kalamassery (Kerala), Ahmedabad (Gujarat), Bangalore (Mysore), and Panaji (Goa) in addition to one at Lucknow (U.P.) were established to help in dissemination of food grains to various industries.

Pilot plants for the production of edible groundnut flour for the manufacture of multi-purpose food, enriched atta, maida etc. have been set up in Coimbatore and Bombay. One unit each of one ton multipurpose food per day production capacity was set up in Calcutta and in Sitapur and Kotdwara (U.P.).

Balahar: This protein rich food for infants containing 25 per cent ground-nut flour, 10 per cent gram and 5 per cent whole meal atta fortified with minerals and vitamins has been developed and produced on a large scale in cooperation with a Bombay mill, and 3,400 tons have already been dispatched to Bihar.

A project for setting up edible tapioca flour of 10 tons daily capacity for Kerala has been taken up by the Food Corporation. **Weaning Food**—A precooked processed food

prepared from blend of pulses, groundnut flour, cereals and skimmed milk powder is being manufactured through Kaira Co-opr. Union with the assistance of UNICEF.

Roller mills wheat products price control order was amended to permit enrichment of atta with 5-10 per cent edible groundnut flour.

PACKAGE PROGRAMME

The above programme which was initially introduced in 7 districts and subsequently extended to cover 9 other selected districts has completed its five-year operation. It is now in operation in 17th district (Karnal in Haryana).

EXPORT PROMOTIONS

Efforts made by the Department of Agriculture in the promotion of exports of agricultural commodities consist mainly of taking measures for giving a boost to the production of important export commodities so as to make available larger quantities for export. With this objective, special centrally sponsored programmes have been undertaken and increased outlays provided in State Plans to achieve higher production targets for commercial crops.

The export policies of various agricultural commodities are constantly being reviewed with a view to locating items which could be liberalised for export.

Efforts are being made for increasing production of export oriented agricultural products through centrally sponsored package programmes (taken up during 1967-68) in cotton, jute, groundnut and tapioca. As a result the export availability being larger the Government has relaxed export restrictions in ground-nut kernel, cake and cotton seed cake.

EXPORT AND VALUE (1967-68)

Quantities of export in 1,000 tons and value (Rs. Millions) respectively were:

I. *Oilseeds, nuts and kernels* 11; 18·0; (a) Ground-nuts 10; 16·0; (b) Others 1; 2·0.

II. *Vegetable Oil (non-essential)* 17; 39·6; (a) castor oil 7; 22·0; (b) ground nut oil (mg.); 0·1; (c) Others 10; 17·5.

III. *Oil cakes* 746; 454·7; (a) Ground nut meal 587; 372·1; (b) Copra 6; 2·6; (c) Cottonseed 136; 72·3; Others 17; 7·7.

IV. *Tobacco* (unmanufactured): 55; 348·5.

V. *Spices*: 52; 272·4; (a) Pepper 25; 131·0; (b) Cardamom 2; 71·2; (c) Ginger 4; 13·1; (d) Chillies 7; 21·0; (e) Others 14; 36·1.

VI. *Raw Cotton** 248; 147·5

VII. *Raw Jute** 69; 26·2.

VIII. *Sugar* (Ex-molasses) 228; 159·5.

IX. *Fruits & Vegetable* —; 522·8; (a) Cashew kernels 51; 430·3; (b) Bananas 4; 2·00; (c) Pulses 4; 6·8; (d) Onions 103; 41·7; (e) Walnut 3; 15·0; Potatoes 1; 0·5; (g) Pickles and Chutneys 1; 4·2; (h) Others —; 22·3.

X. *Gms and Resins* 5; 17·8.

XI. *Lac* 15; 15·1; (a) Shellac 10; 37·6; (b) Others 5; 13·9.

XII. *Essential Oils* 1; 37·0.

XIII. *Meat and other products* 1; 7·7.

XIV. *Animal casein* 473; 24·5.

XV. *Wool* 9; 56·5.

XVI. *Fish & Fish products* 20; 199·5.

Total value Rs. 23,683 Millions.

* 1,000 bales of 180 kgs.

AGRICULTURAL PRICES COMMISSION

The Government of India considered recommendations of the Commission and announced for 1967-68 season minimum support prices for paddy, wheat, jowar, bajra, maize and gram among food grains and for cotton, jute and sugarcane which were generally higher than those of the previous season. The statutory ceiling on the prices of raw cotton was also removed from 1967-68 season. Procurement prices which are higher than minimum prices were fixed for kharif and rabi foodgrains for 1967-68; these were fixed at higher levels than those of previous season to give incentive to producers. The actual levels of procurement prices for 1967-68 (marketing season) are given below along with those of 1966-67.

Procurement Prices			(Rs. lakhs)	
Crop			1966-67	1967-68
Paddy	..	..	42 — 56.25	45 — 56.25
Rice	..	..	68.50 — 93.75*	72.8 — 95.25
Wheat	..	..	54 — 65	65 — 95
Maize	..	..	48 — 52*	48 — 58
Jowar	..	..	47 — 54	47 — 56(a)
Bajra	..	..	47 — 53	47 — 56

* Because of security conditions in Bihar higher procurement prices of Rs. 125 for rice and Rs. 60-80 for maize were paid. (a) The price of inferior quality of jowar has been fixed at Rs. 43 in Maharashtra.

FOODGRAIN POLICY

A Conference of Chief Ministers was held on 26th & 27th September 1967, to discuss the food policy for the year 1967-68. The following important conclusions were reached in the Conference:—

(i) In view of the paramount importance of maximisation of procurement for meeting public distribution needs within the States, export to deficit States and to build a buffer stock of 2 to 3 million tonnes, the consensus at the conference was in favour of continuing the zonal restriction for the movement of foodgrains for the year 1967-68.

(ii) A vigorous procurement drive should be undertaken during the year 1967-68. The procurement target of 7 million tonnes of kharif cereals as recommended by the Agricultural Prices Commission with a State-wise breakup was also discussed. Despite the general awareness of the need to maximise internal procurement, some States felt that the procurement targets recommended by the Agricultural Prices Commission may not be reached. The surplus States of Andhra Pradesh, Orissa, Madhya Pradesh, Punjab, Tamil Nadu and Haryana assured that 4.1, 2.0, 4.0, 1.5, 1.25, and 0.5 lakh tonnes respectively of rice will be available for export. It was emphasised on surplus and deficit States that, in view of the necessity to maximise internal procurement, it is necessary to increase procurement targets. The deficit States should also make a more realistic assessment of their requirements exercising greatest economy and vigilance in public distribution.

(iii) Methods of procurement should be left to each State Government to decide keeping in view the local condition and the procurement target suggested by the Agricultural Prices Commission.

(iv) It was recognised that, on the one hand, the procurement prices offered to the producers should take into account the higher cost of production and the element of price incentive necessary for inducing more production, on the other hand the impact of procurement price on market prices of foodgrains, cost of living and the general price level cannot be lost sight of. There was a consensus on the need of balancing the interests of the producers and consumers and narrowing inter-state price disparities. It was decided that the procurement prices of respective States will be discussed at the official level immediately after the conference.

(v) The Food Corporation of India should play an increasing role as the largest single wholesale public agency in the country, especially for inter-state trade. It was pointed out that the Food Corporation of India can work effectively only with the fullest cooperation of the State Governments. Wherever necessary, State Board of Management would be appointed to establish effective liaison between the State Government and the Food Corporation of India.

(vi) The incentive bonus given for the supply of rice and wheat to the Centre may be continued with some modifications. Incentive bonus should be given only if supplies exceed a certain minimum level.

(vii) There was some divergence of opinion on the question of subsidy on imported foodgrains. One view, especially in the deficit States, was that the subsidy should be continued to give relief to the vulnerable sections of the society. The other view was that subsidy on imported foodgrains may be withdrawn and that the savings may be utilised for increasing agricultural productions. It was decided that these views would be taken into account while examining the question of withdrawal of subsidy.

FOOD SITUATION, 1967-68*

Food situation during the major part of 1967 was difficult due to widespread drought resulting in crop failure for the second year in succession. Not only the same States were affected again but drought (in Bihar, eastern U.P. and some areas in M.P.) was of an unprecedented intensity resulting in acute scarcity. Even though the production of foodgrains showed marginal increase in 1966-67, it was still 14 mill. tons lower than 1964-65 (level of 89 million tons). The Government continued controlled distribution of foodgrains and by the end of 1967 about 31 million people had been brought under statutory rationing and 245 million under informal rationing. Distribution of foodgrains was maintained by imports and by intensive internal procurement. Imports during 1967 amounted to 8.7 mill. tons (as against 10.4 million tons in 1966). Internal procurement during 1966-67 exceeded 4 million tons, though the procurement of rice was lower. The difficult rice position was made up by increased wheat supplies.

Weather conditions and production of kharif crops during 1967-68, have been on the whole good. In the case of rabi winter crops also the season was favourable, since the shortfall of rains during Oct.-Nov. has been compensated by the widespread rains of December, though excess of rains have caused some damage to standing crops in Maharashtra and Madhya Pradesh. Output of foodgrains during 1967-68 was 95.6 mill. tonnes.

* Food production in 1968-69 is expected to stay at 1967-68 peak level of 95.6 mill. tonnes.

FISHERIES

INDIA produces about 0.89 million tons of marine fish out of a total fish production of 1.3 million tons, which is only a quarter of the country's requirements estimated at about 4 million tons annually. About 1.9 lakh fishing craft including 1.16 lakh powered craft are estimated to be employed. The average catch is about 2,500 lbs. per man per year. The annual per capita availability of fish in India is estimated to be 3.4 lbs. as against 16 lbs. in Ceylon, 70 lbs. in Burma and 90 lbs. in Japan. The fishing industry in India offers employment to about a million persons and contributes annually over Rs. 60 crores towards the national income. About 27,000 tons of fish products, consisting mostly of dry, dry-salted and wet-salted fish, are annually exported to neighbouring countries.

Some of the steps taken by Government to improve fish production are mechanisation of fishing craft, training centres for fishermen, cold storage facilities, formation of deep-sea fishing stations and research at the four main central stations, viz., Central Inland Fisheries Station, Calcutta, Central Marine Fisheries Research Station, Mandapam, Deep-sea Fishing Station, Bombay and the Central Fisheries Technological Research Station, Cochin.

Today more than 1.1 lakh mechanised boats are operating on Indian coastline. In Bombay the local types of boats are being mechanised. New designs have been evolved for boats in Tamil Nadu, Kerala and Andhra States. Experiment in improved types of fishing with small power craft are also in progress.

Cold storage facilities exist in Bombay, Mangalore, Calicut, Cochin, Quilon, Trivandrum, Madras and Calcutta. Additional plants are being installed in many other places. Some of these plants have been provided under T.C.M. and Norwegian aid programmes.

PRODUCTION

Production is shown in the table below. About two-thirds of the catch are marine-fishes.

'000 tonnes.						
Year			Marine	Inland	Total	
1965	..	..	824	507	1,331	
1966	..	..	889.9	477.5	1,367.4	
1967	..	..	863.4	536.8	1,400.2	

The following is a list of the names of fishes showing within brackets their production in metric tons in 1966 and 1967 respectively:

Elasmobranchs (37,428 ; 29,564) ; Eels (2,425 ; 2,534) ; Cat fish (22,564 ; 24,299) ; Chirocentrus (7,877 ; 9,015) ; Oil Sardine (2,52,700 ; 2,59,102) ; Other Sardine (59,075 ; 32,202) ; Hilsa Itisha (1,542 ; 1,106) ; Other Hilsa (8,432 ; 6,835) ; Anchoveilla (26,677 ; 29,237) ; Thriissocles (8,831 ; 9,222) ; Other Clupeids (23,260 ; 22,332) ; Harpodon Nehereus (77,362 ; 74,882) ; Saurus (2,205 ; 1,768) ; Hemihampus and Belone (1,831 ; 1,485) ; Flying Fish (3,699 ; 3,094) ; Perches (12,136 ; 8,422) ; Red mullets (4,692 ; 1,358) ; Polynemids (4,589 ; 2,654) ; Sciaenids (25,999 ; 24,458) ; Ribbon Fish (45,110 ; 29,433) ; Caranx (19,680 ; 24,337) ; Chorinemus (3,473 ; 2,836) ; Coryphaenas & Elacate (314 ; 649) ; Trachinotus (22 ; 10) ; Leonathus (39,834 ; 43,769) ; Gazza (48 ; 54) ; Lactarius (5,872 ; 8,669) ; Pomfrets (17,832 ; 27,460) ; Mackerel (31,960 ; 29,194) ; Seer Fish (10,111 ; 9,917) ; Tunnies (3,063 ;

3,683) ; Sphyraena (1,069 ; 4,403) ; Mugil (1,488 ; 3,155) ; Bregmaceros (2,659 ; 2,107) ; Soles (7,431 ; 6,072) ; Penaeid Prawns (55,487 ; 62,170) ; Non-penaeid Prawns (35,432 ; 29,639) ; Other Crustaceans (3,716 ; 6,299) ; Cephalopods (997 ; 526) ; Miscellaneous (22,968 ; 24,732) ; Total marine (8,89,942 ; 8,63,443) ; Total Inland (4,77,458 ; 5,36,800) ; Grand Total (13,67,400 ; 14,00,243).

The total landing of marine fish by States for 1966 & 1967 is shown below :

		(In tonnes)	
		1966	1967
Bengal & Orissa	.. .. .	9,796	18,953
Andhra	.. .. .	80,071	76,054
Tamil Nadu (including Pondicherry)	.. .. .	1,47,530	1,32,505
Kerala	.. .. .	3,46,729	3,64,129
Mysore	.. .. .	65,639	49,185
Maharashtra	.. .. .	1,34,257	1,33,302
Gujarat	.. .. .	89,339	75,633
Goa	.. .. .	24,600	12,460
Andaman (South)	.. .. .	330	410
Minicoy & Laccadive Islands	.. .. .	660	812
Total	.. .. .	8,89,942	8,63,443

RESEARCH

Research in Fisheries is carried out primarily under the aegis of the following main central stations.

Central Inland Fisheries Research Institute, Barrackpore ; Central Marine Fisheries Research Institute, Mandapam, Tamil Nadu ; Central Institution of Fisheries Technology, Ernakulam, Kerala State.

The fishery research institutions have been brought under the jurisdiction of the reorganised ICAR.

MARKETING

For the improvement of fish marketing, six refrigerated railway vans are running—two at Palasa (Orissa)-Calcutta route, two in Calicut-Madras and two in Vijayawada-Howrah. Three more such vans are under construction. These vans have highlighted the need for more such vans not only on these routes but on others as well. Arrangements are, therefore, being made for the construction of six more refrigerated vans.

To meet the urgent requirements of refrigerated road transport, arrangements were made for importing 26 road vans. A few such trucks were also fabricated locally. Six ice and cold storages were established one each in Gujarat and M.P., two each in Kerala and Orissa. Work on four freezing plants with provision for frozen storage one each in Andhra, Goa, Kerala and Orissa is being completed. During the year 1966, 25 ice plants, 19 cold storages, 6 walk in coolers and 4 freezing plants were established and 26 out of 50 ice plants, 50 cold storages, eight freezing plants and 11 storages were under construction. Four ice plants and 11 cold storages were completed during the year.

Exports : During 1965-66, '66-67 and '67-68 India exported 15,000, 20,000 & 20,000 tonnes of fish and fish products valued at Rs. 97.2, Rs. 111.0, and Rs. 147.5 million respectively.

TRAINING

The first two-year course for training District Fishery Officers in all aspects of fisheries, both marine and inland was imparted at the Central Institute of Fisheries Education at Versova.

For training fishermen there are centres at Satpati near Bombay, Veraval in Saurashtra, Cochin in Kerala and Tuticorin in Tamil Nadu. New training centres are being opened at Mangalore in Mysore State and at Kakinada in Andhra Pradesh. At these centres batches of 20 candidates are admitted for 6 months training.

The Central Deep sea Fishing Station at Bombay gives training in modern fishing methods. At the Central Institute of Fisheries Operatives, Ernakulam, the first batch of trainees for the Master Fisherman's Certificate Course and 34 for the Engine Drivers Course completed their training. In order to meet the additional requirements of fishery operations in the Fourth Plan, three more training units are proposed in suitable centres. A training course for boat building foremen and gear technicians has commenced from July 1966. The Marine Products Training Centre, Mangalore (started with Japanese collaboration) provides training in canning, freezing, microbiology etc.

FOREIGN AID

The FAO, TCM and Indo-Norwegian Foundation continued to give valuable technical assistance. During the year (1963) the country had the services of four fishery experts, one under Colombo Plan on continuing resources survey and three under FAO/ETP one each on fishery administration, Tuna fishing and trawling.

FISHING HARBOUR

The construction of the fishing harbours at Veraval (Gujarat), Nagapattinam and Cuddalore (Tamil Nadu), Baypore (Kerala), Bhatkal (Mysore) and Vishakapatnam is completed. Construction of such harbours at Porbunder, Umbergaon, Karwar (Mysore), Balapatnam and Vizhinjam (Kerala) and Kakinada (A.P.) is in progress. Eight fishing harbours have been constructed at Jaffrabad and Navabundar (Gujarat), Kagalhimmi (Mysore), Kakinada (Andhra) and Azhikode and Ponnani (Kerala). Another eleven at Porbunder, Jaffrabad (2nd stage) and Umbergaon (Gujarat), Karwar, and Mangalore (Mysore), and Cannanore, Baliapatnam and Vizhinjam (Kerala) is in the process of completion.

ANDHRA PRADESH

Andhra Pradesh has a coast-line of about 600 miles. The continental shelf extends to 20 miles on an average with a fishable area of 12,000 sq. miles. There are 350 fishing villages in seven marine districts of A.P. with 1,80,000 fishermen having 20,000 boats and 61,000 fishing gear.

The fish production of the State is estimated at 1,58,000 metric tons of marine fish and 84,500 metric tons of inland fish annually.

Marketing : Fish is being exported to Orissa and West Bengal. By the export of fish to West Bengal, there is substantial saving in foreign exchange expenditure due to import of fish from Pakistan.

Cooperatives : There are 472 fishermen cooperative societies with a membership of 49,643 and a share capital of Rs. 5,43,237 including six Marketing and 2 Apex Central Societies.

GUJARAT

Gujarat has a coast line of over 1,000 miles extending from Lakhpat in the north to Umbergaon in the south.

It has a total fishable area of 26,000 sq. miles including the Gulf of Kutch and Gulf of Cambay.

There are 51 important fishing ports and 125 other small roadsteads and fishing hamlets. No. of fishermen 2.5 lakhs; no. of active fishermen 30,000; no. of fishing vessels used in estuarine, coastal and offshore fishing: about 4,400 ranging from 1 to 15 tons. Total capital invested in fishing boats, engines, fishing gear and other accessories by fishermen and their co-operatives amounts to Rs. 2.5 crores.

Total landings in 1967-68: 1.13 lakh metric tonnes worth Rs. 5.23 crores. Local consumption in the State: 28,000 tons. Balance is exported to Bombay, Delhi, Calcutta, Ceylon, Burma, Mauritius and Singapore. Value of fish exported to foreign countries: Rs. 4.50 lakhs.

Inland fisheries are restricted to the districts of Baroda, Kaira, Panchmahals, Mehsana, Banaskantha, Kutch, Broach, Surat and Dangs. There are 2,300 fishermen engaged in inland fisheries. 30 lakhs of fish seed of major carps were supplied to the pisciculturists during 1967-68. Two fish farms and eight fish seed centres have been established.

Per capita earning of fishermen: Rs. 875 a year.

No. of ice factories 84; ice production 1,032 tonnes a day; no. of cold storages available 13; no. of mechanised boats: 1,259 (June, 1968). Quantity of fishing twine supplied: 40,000 kgs. Service stations 3; fishery schools: one each at Baroda, Bhadbhut, Umarsadi and Kolak; Cultural centres 27; Shark liver oil extraction centres 3; fish meal plant: one at Jaffrabad; Govt. of India institutions in the State: Marine Fisheries Research Station at Veraval; Survey Centre at Veraval; Offshore Fishing sub-station at Veraval; Central Institute of Fisheries Technology at Veraval.

The State has 85 co-operatives with about 14,500 members.

A research wing has been opened in the Directorate to conduct research on the offshore fisheries.

KERALA STATE

Kerala State, with 590 Kms. of sea-coast has contributed 84.9 per cent of the export earnings during 1967-68. Oil sardine, Prawns, Horse Mackerel, Soles, Lactarius, Shark are the most important marine fishery and Prawns Barbus, L Calbasu, Clarius, Mullet, Etroplus, Murels etc. are major inland fishery during the year 1967-68. Nearly 13,800 big and small non-mechanised canoes, about 8,500 catamarans and nearly 1,500 mechanised boats using over 45,000 fishing gears of different types and size, thousands of hooks and lines are in operation.

The estimated landing of fish in the State in 1967 is 2,53,269.8 M. Tons of which 9,192 M. Tons are contributed by Inland water fishes, the rest 2,44,077.8 M. Tons being sea fishes. This quantity is valued at Rs. 9,27,43,067 of which Rs. 90,09,849 are from inland fisheries. About 70 per cent of the people are estimated to be fish eaters. At the most only 55 per cent of the total production is consumed as fresh fish, 13 per cent as sun-dried and salted, 20 per cent as frozen and canned, the rest being converted as fish manure or fish meal. The important items of fishery exports are frozen, canned and dried fish.

There are five Fishermen Training Centres at Vizhinjam, Neendakara, Ernakulam, Baypore and Cannanore to train able bodied fishermen in the use of mechanised fishing crafts and modern fishing equipment. On an average 200 trainees are getting training in these 5 centres. 1,762 persons have undergone training till date. Mechanised

boats, Nylon etc. are distributed at subsidised rates through the Malsya Ulpadaka Co-operative Societies.

There are at present 536 primary Societies and 194 credit societies. 17 Marketing Societies (including 2 Federations) are working. Their distribution is: Two in Trivandrum District, two in Quilon, two in Alleppey, three in Ernakulam, two in Trichur, one in Palghat, two in Kozhikode and three in Cannanore.

There are 6 Research Stations in the State engaged in the research of marine, estuarine and fresh water fisheries.

There are 4 brackish waters fish farms one fresh water fish farm and nine major reservoir fishery centres.

TAMIL NADU

Tamil Nadu has a coastline of 997.47 kilometres with 9,000 square miles of inshore waters and a continental shelf of about 30,000 square miles and about 19,52,279 acres of inland waters. There are about 3.75 lakhs of fishermen spread over 415 inland and 308 marine fishing villages of the State. There are at present about 28,000 catamarans, 609 mechanised fishing boats, and about 82,000 fishing nets of different types and 2,18,000 hooks and lines.

The estimated landings of marine fish in 1967-68 were about 2,04,910 tonnes valued at Rs. 2,305.31 lakhs. The estimated landings of inland fish from various inland waters were about 1,15,935.66 M. Tons valued at Rs. 731.17 lakhs.

The four marine biological stations, Ennore, Krusadai Island, Tuticorin and Kanya Kumari, the three technological stations at Tuticorin, Nagapattinam and Kanya Kumari and the Fresh Water Biological Station at Bhavanisagar and Hydrological Station at Madras do research on fisheries problems.

The Pearl and Chank fisheries of Tamil Nadu are state monopolies and yield substantial revenue besides supporting a large population of skilled divers. About five lakhs of chanks are fished every year in the departmentally operated Tirunelveli Chank Fishery, yielding a revenue of about Rs. 10 lakhs.

A quantity of 476.75 lakhs of fingerlings was collected during the year 1967-68.

For providing suitable landing and berthing facilities, fishing harbours have been constructed at Cuddalore and Nagapattinam.

As on 1-8-1968 five fish curing yards are maintained by the Government wherein good quality salt is supplied to fishermen at subsidised rates for curing fish hygienically under the technical supervision. A quantity of 1,954.234 tonnes cured fish was released from the yards during the year 1967-68.

18 Cold Storages and four walk-in-coolers are provided at important fish landing centres and at fish markets.

A fish canning factory and a fish meal plant are working at Tuticorin.

This Department owns a fleet of 35 vehicles for the fishermen cooperative societies.

The Fisheries of major reservoirs formed by hydel and irrigation projects have been taken over by the Fisheries Department for development and exploitation.

There were 178 inland and 267 Marine Fishermen Co-operative Societies, 8 Fishermen Cooperative Federations and 9 Fishermen Cooperative Marketing Unions during 1967-68.

There are six Fisheries Training Centres at Tuticorin, Nagapattinam, Cuddalore, Mandapam, Colachel and Madras training 50 fishermen per batch.

The Craft Research Unit at Madras is conducting experiments on the fishing crafts and studies on the development and possibility of mechanising all country crafts.

An aquarium is located at Madras.

MAHARASHTRA

Maharashtra State has a coast line of 700 km. extending from Reddi in the south and ending at Zai in the north and aligning the maritime districts of Thana, Kolaba, Ratnagiri and Greater Bombay.

Catch of fish from marine and inland resources during 1967-68 was estimated at 2,40,900 tonnes and at 13,200 tonnes respectively. Value of marine catch to producers was estimated at Rs. 12.18 crores during the year 1967-68.

Out of 2.6 lakhs of fisher community, 52,100 fishermen are actively engaged in the industry, 32,100 in marine fisheries and 20,000 in inland areas.

Fishing crafts: Total number of vessels: 10,617.

Fishery survey: Four medium sized trawlers of the department have completed survey of 12,431 sq. km. of sea, between Ratnagiri, Kolaba & Thana which resulted in the gainful exploitation of fishing with Trawl nets.

Trawler Fishing: 150 mechanised vessels have successfully taken to trawling in the private sector, and four 36 trawlers for exploitation of deeper and farther seas.

Fish farms: The three fish farms one each in Bhandara, Kolaba, and Poona districts and 30 nursery units serve as a composite unit for demonstration of scientific methods of fish culture, biological studies of culturable varieties of fishes under controlled conditions and fish seed production centres. One more fish farm at Parbhani is constructed.

Fisheries Technology: Technological work on fisheries is carried out at the Fisheries Technological Laboratory at Sassoon Docks.

In the year 1967-68, sale proceeds of Shark Liver Oil products and fish meal amounted to Rs. 20,11,972. The production of neat shark liver oil with Vitamin 'A' potency 8000 I.U. was 38,362-litres.

The departmental fish canning plant, produced 62,814 fish cans in the year 1967-68.

The fish meal plant of the Government of India, recorded a sale of 807 metric tonnes of fish meal during 1967-68.

There are at present 66 ice factories and cold storages in the State with cold storage capacity of 1,834 tonnes.

Government continues to grant financial assistance to fishermen's Co-operative Societies for establishment of ice factories, cold storages and quick freezing plants.

Fishery education: The department has under its control eight fisheries vocational schools, one each at Satpati and Navapur, District Thana, Karanja and Bagmandla in the Kolaba District, Ratnagiri Sakrinat, Mithbao and Tarkarli in the Ratnagiri District. Total number of pupils in these schools is about 4,085. No fees are charged to pupils and text-books are provided to deserving pupils free of charge.

The Fisheries Department has also established a fisheries high school at Satpati, District Thana.

The departmental training centres are established at Versova, Ratnagiri, Alibag, Kolaba, and Bassein.

Mechanisation of fishing craft: Under this scheme financial assistance in the shape of loan and subsidy was

so far being granted to groups of fishermen for purchase of engines and winches and construction of boats, decked boats and decking.

Government assistance to the fishing trade: Financial assistance: loan of Rs. 26.77 lakhs, subsidy of Rs. 22.20 lakhs and Non-redeemable share capital of Rs. 9.66 lakhs were disbursed during the year 1967-68.

Taraporevala Aquarium: During the year 1967-1968, 7,20,909 persons including foreign dignitaries visited the aquarium.

Research & Investigation: The fisheries department has well equipped research stations at Bombay and Ratnagiri, where research is carried out on fisheries of regional importance and such aspects of marine biology as have a direct bearing on fisheries.

During 1967-68 as against the budget provision of Rs. 85,33,000 an expenditure of Rs. 69,00,000 was incurred on plan schemes.

Budget: Initial budget of the department for the year 1967-68: Rs. 1,92,76,000.

MYSORE

Inland Fisheries: There are about 30,000 minor tanks, 2,700 major tanks, 17 reservoirs and about 3,800 miles of rivers in the State.

Inland Fisheries development is extended to all over the State.

Artificial Fish Breeding Centres: Tungabhadra fish farm, Hessarghatta fish farm, Neerasagar fish farm, Vanivilas Sagar fish farm.

An Inland Fisheries Research Station has been started at Bangalore with field laboratories at important inland centres.

The estimated fish production at present from the inland resources is nearly 35,000 metric tons and the revenue in the form of direct realisation from exploitation of fisheries, through the sale of fishery rights, issue of licences, etc., is about Rs. 1,50,000.

Acreage of inland waters in the state is 10,20,000 (approximate). Inland fishermen population is estimated at 6,00,000.

Marine Fisheries: Mysore State has 200 miles of coastline on the Arabian Sea. Along this sea coast, there are many fishing villages, the most important of them being Karwar, Ankola, Kumta, Honnawar, Bhatkal, Majali, Bingi Chendia, Gangolli, Malpe, Udiyavar, Bokapatnam and Mangalore.

More than 40 varieties of sea fishes are landed out of which the most important are Sardine, Mackerel, Seer and Sharks and Prawns. The total fish production on Mysore coast is over 20 per cent of India's marine fish production.

The total landings on the Mysore coast is 1.28 lakh metric tons. Nearly 400 tons of frozen and canned prawns valued at about Rs. 40 lakhs are exported.

Value of fish exploited:—

Quantity of fish in metric tons and the approximate value:—North Kanara: 73,358; Rs. 2.81 crores; South Kanara: 42,225; Rs. 2.21 crores.

There are about 20,000 fishermen actively engaged in fishing, about 6,500 boats and about 37,000 nets. The number dependent on the fishing industry is estimated at over 1,00,000.

Average catch per fisherman per annum on Mysore coast 5.75 tons.

Capital value of the industry together for North and South Kanara districts is estimated at Rs. 2.5 crores.

No. of fish curing yards:—North Kanara: 15; South Kanara: 15.

Under Indo-Norwegian project, work on providing harbour facilities, training of fishermen, boat construction and setting up of processing facilities have been taken up. At the Marine Products Processing Training Centre, Mangalore, training of technicians in fish (food) processing technology has been taken up in collaboration with Japan. It is expected that the collaboration projects with Norway and Japan will continue in the Fourth Plan. An applied nutrition programme sponsored by the UNICEF has been introduced.

ORISSA*

Kinds of sea fish caught: White Baits, Silver bellies, Jew fish, Seer fish, Ribbon fish, Perches, Sardines, Mackerel, Flat fish, Silverbar, Glass fish, Pomfret, Bombay duck, Catfish, Threadfins, Sharks, Rays, Skates and Eels, many types of clupeids like Pelone, Megalops, Indian shed etc. besides crustaceans such as Prawns and Lobsters.

Kinds of estuarine fish caught: Hilsa, Megalops, Elopes, Perches, Mulletts, Milk fish, Catfish, Threadfins, Pomfrets, Shrimp, Croackers, Sawfish, Sharks, Rays etc. besides crustaceans like Prawns and Crabs.

Kinds of Inland Fish caught: Major Indian Carps, such as Rohu, Mrigal, Catla and Calbasu, the minor carps, Mahaseer, Catfishes like Wallago (Boalfish), Silondia, Pangus, Mystus, Bagarius, Perches, Murrels, many types of mud fishes, minnows, feather backs etc.

Important Marine fishing centres: Pattisonapur, Markandi, Gopalpur, Prayagi, Aryapalli in Ganjam district, Arkhakuda, Puri and Konark in Puri district, Paradeep in Cuttack district, Chandnipal, Aruhabad, Eram, Chandipur and Kirtania in Balasore district.

Important Estuarine Fishing centres: Sonapur and Surala (Bahuda estuary in Ganjam Dist.). Damodarpur and Gajapatinagar (Rusikulya estuary in Ganjam). Rambha, Keshpur, Chilka, Balugaon, Gangadharapur, Kuhuri, Kaluparaghat, Bhusandapur and Satpara in Chilka area. Astaranga and Machagaon in Devi river estuary, Kujanga, Jatadhara and Hookitola in Mahanadi estuary, Satbhaya, Chandinipal, Karanjmal in Dhamra estuary and Kirtonia in Subarnarekha estuary in Balasore district.

Important inland lake and reservoirs: Hirakud reservoir in Sambalpur district, Ansupa lake in Cuttack district, Bhanjanagar and Surada reservoir in Ganjam district.

Processing Plants: Fish canning factory — Majhidiha; Fish freezing plant-cum-frozen storage — Majhidiha, Paradeep.

Preservation: In Orissa there are 8 ice plants-cum-cold storage in marine and inland fishing centres, 12 walk-in-coolers for preservation in smaller quantities and 2 mobile-flake ice plants.

Transportation: There is a refrigerated van, besides a few insulated vans for special fish transport.

Marine fishermen cooperative societies (Districtwise): Balasore — Paschimbad, Adhuan, Aruhabad and Balasore; Ganjam — Sonapur, Pattisonapur, Gopalpur, Markandy; Puri — Puri.

* Production during 1967-68: Riverine spawn 3,001 cups; induced breeding carp spawn 388 cups; Fry 239 lakhs; marine fish (edible) 415.5 M tons; disposal of canned products 738 kgs; production of ice 1,400.5 tons.

Important Inland Fish farms : Kausalyaganga, Brickfield (Puri), Pipli, Laxmisagar, Kiakani and Kanjia (Baranga) in Puri District ; Chaudwar, Killa (Cuttack), Barimul and Jajpur in Cuttack District ; Dighi (Balasore), Amarda, Kathapal (Mayurbhanj), Digdan (Keonjhar Dist.), Angul (Dhenkanal Dist.), Sambalpur, Barapalli and Bomlei (Sambalpur Dist.), Bolangir, Loisinga and Sonepur (Bolangir Dist.), Humari, Berhampur, Balguntha, Parlakhemedi in Ganjam Dist., Jeypore in Koraput Dist., Bhawanipatna and Kokasara in Kalahandi Dist., Phulabani in Phulabani Dist. and Sundergarh in Sundergarh District.

Aquarium : There is a small experimental aquarium attached to the Fisheries Department at Cuttack.

Research has been completed on the manufacture of agar-agar and hydrolised protein. Production of biscuits and tablets from concentrated fish protein is in progress.

WEST BENGAL

Kinds of sea fish caught : Pomfret, Bhetki, Mackerel, Prawn, Tropsi, Hilsa, Chanda, Bhola, Bombay Duck, Ribbon, Shark, Rays, Rock Cod, Skate, Eel, Cat fish, Phasa, etc.

FORESTS

TOTAL forests : 302,688 sq. miles. Percentage of Forests to Land : 21.8. Per capita forest area will be about half an acre.

Financial return per acre of forest : Rs. 2.60.

The forests are unevenly distributed and the production is also proportionately low, being only 2.5 c.ft per acre per year as compared to 56.8 c.ft. in France, 37.3 c.ft. in Japan and 18.1 c.ft. in U.S.A.

Private forests : In Assam 400 sq. miles (in Khasi and Jaintia Hills), Orissa 600 sq. miles mostly in zamindari agencies, Punjab 340 sq. miles in scattered units, and Himachal Pradesh 29 sq. miles in Jabbal Division.

About 16 per cent of the total forest area is inaccessible and 45 per cent of these could yield timber and other forest produce.

'Forests' are a State subject.

The Government of India, however, are responsible for forest research and forest education. The Ministry of Food and Agriculture in the Government of India co-ordinates forest activities in the country, but no forests are directly worked by it except the Andaman forests. The Inspector-General of Forests is their technical adviser in forest matters.

EDUCATION AND RESEARCH

Forest research and education are centralised in the Forest Research Institute and Colleges located at Dehra Dun. The Institute is recognised by the F.A.O. as a Centre for training in Forestry for South-East Asia.

The Forest Research Institute and Colleges are under the administrative control of the Ministry of Food and Agriculture of the Government of India. Its administrative Head is designated the President. It has under its control two Regional Forest Research Centres, one at Bangalore and the other at Coimbatore to deal with the special problems pertaining to the area.

The institute was reorganised into four directorates working under the President, viz., 1) The Directorate of

Total quantity of fish caught in 1966-67 : 120,000 tonnes (based on internal production only).

Potential demand for fish in the local market : 5,10,000 metric tonnes (the State as a whole).

Gear used : Grill net, Drift net, Drag net, Fixed net, Herring trawl etc.

Ancillary industries like shark liver oil, gelatin, glue, fish-meal, and their production : One scheme for production of shark liver oil, fish-meal, processed fish and utilisation of other fish by-products is operated at Contai coast.

Extent to which production meets the demand : 20 per cent.

Budget allotment for the Department for 1967-68 : Rs. 7,480,000.

Research : There is one Freshwater Fisheries Research Station at Kalyani. There is one Technological Research Station at Junpat for production and standardisation of various fish bye-products and fish curing yards both at Junpat and at Fragergunge. Brackish Water Experimental Fish Farm at Junput, Hill-Stream Fisheries Research Station at Kalimpong and a number of Fish Seed Farms in a number of districts.

Forest Education, 2) The Directorate of Forestry Research having two branches the Silviculture Branch and the Logging Branch, 3) the Directorate of Forest Products Research having six branches, the Minor Forests Produce Branch, the Botany Branch, the Forest Pathology Branch, the Entomology Branch, the Wood Anatomy Branch and the Wood Preservation Branch and 4) the Directorate of Biological Research having six branches, the Wood Seasoning Branch, the Composite Wood Branch, the Cellulose and Paper Branch, the Timber Mechanics Branch, the Timber Engineering Branch and the Chemistry of Forest Products Branch.

Statistical Branch — This branch deals with the appropriate methods of collecting, analysing and then interpreting the numerical data in various fields of forestry and forest product research.

Service Branch — Engineering Services like the design of pilot plants, erection of heavy plant and equipment, advice in the selection of equipment, etc. are rendered by this Branch.

U. N. AID

The U.N. is expected to help India's Rs. 1,440-lakh project of scientific survey of forest resources from its special fund.

The U.N. is expected to contribute, mainly in the form of technical experts and equipment, including helicopters and aerial survey apparatus, to the tune of Rs. 40 lakhs.

Two of the U.N. aided projects are "Pre-investment Survey of the Forest Resources" and Establishment of Logging and Training centres. The first project costing Rs. 131 lakhs is assisted by Rs. 42.15 lakhs from U.N. special Fund to investigate the availability of forest raw materials for industrial development in three selected zones i.e. Northern, Central and Southern covering 11,500 sq. miles, assess the raw material requirements of wood based industries and to determine suitable areas for industrial plantations. Field work for ground sampling in all the three zones were completed during 1967-68.

Training courses in basic logging have been started in the Northern Zone (Dehra Dun), Central Zone (Chandrapur) and in the Southern Zone (Coimbatore). Training courses in the operation and maintenance of logging equipment, studies in planning and efficiency of logging operations and land milling and operation in cable ways are run at Dehra Dun, Chandrapur and Kula respectively. During 1967, 48 courses were conducted and over 500 persons were trained in the use of modern logging equipment and mechanised means of timber extraction.

FOREST PRODUCE

Forest produce is divided into two main heads—(1) Major produce, i.e., timber and firewood, and (2) Minor produce, comprising all other products, such as bamboos, canes, leaves, fruits, fibres, grasses, gums, resins, essential oils, medicinal and poisonous plants, fatty oils and fats, dyes, tans, animal and mineral products.

The annual output of timber is 274 million c.ft. and of firewood 700 million c.ft. At present annual import of wood and wood products is of the order of 40 million c.ft.

The bulk of the timber supply is used for railway sleepers, constructional requirements, furniture, plywood (especially for tea chests), matches, etc.; but the country imports timber for specialized uses such as jute and textile mill accessories.

Exports from India are limited to selected rosewood logs for high grade furniture to Europe, teak poles for the Middle East and a few other items.

A. N. Islands: From April to Dec. 15, 1966, about 33,000 tonnes of timber were extracted of which about 13,000 tonnes were shipped to mainland. About 1,200 acres (486 hectares) have also been brought under teak plantations under the scheme for raising industrial plantations.

Imports are regulated by protective or revenue duties and are restricted to such specialized items as are not really obtainable from local production.

PLANTATION SCHEMES

In order to meet this deficiency three important schemes, namely:

- (i) Plantation of quick growing species;
- (ii) Plantation of economic species (teak, sissoo, semal, etc.); and
- (iii) Plantations to be raised under the scheme of rehabilitation of degraded forests

will be taken up in the Fourth Plan. In addition, it is proposed to raise extensive wood plantations including the farm forestry and afforestation schemes for the soil conservation programmes.

The forests which would have to be cleared to raise the plantations proposed in the Fourth Plan are expected to make available approximately 4·8 million cubic metres.

TRAINING

The development programmes for forests proposed in the Fourth Plan cannot be implemented without adequate technical staff. The Indian Forest College at Dehra Dun, which is the only college in the country for training forest officers could, with great difficulty cope with the training of officers in the Third Plan. Provision to strengthen both the officers' and the rangers' colleges at Dehra Dun has been made in the Fourth Plan. A new ranger's college is also proposed to be started in central India, in addition to the existing colleges at Dehra Dun and Coimbatore.

AREA UNDER FORESTS

(See under each State)

AGRICULTURE

SOME major facts about Indian agriculture (1965-66): Total geographical area according to village papers (reporting area): 305·6 million hectares; area not available for cultivation (including forests, 60·2 million hectares, land for non-agricultural uses and barren lands, 15·3 and 35·4 million hectares respectively); other uncultivable lands like permanent pastures and grazing lands, land under free crops and cultivable wastes; 36·2 million hectares; fallow land: 22·6 million hectares: net area sown: 135·8 million hectares; area sown more than once: 19·1 million hectares; gross area sown: 154·9 million hectares; net area irrigated: 26·44 million hectares & gross area irrigated: 30·92 million hectares.

Average rainfall 45"; deficiency of 25 per cent is classed dry; deficiency of 40 per cent severe drought; usually one year in five is a dry year, one in ten, a year of severe drought, one in 20 to 25 years widespread severe drought.

AREA AND PRODUCTION

The names of crops, area in '000 hectares and production in '000 tonnes respectively during 1967-68 are given below: Rice: 36,722; 37,858; Wheat: 14,917; 16,568; Barley: 3,326; 3,469; Maize: 5,577; 6,275; Jowar: 18,630; 10,107; Bajra: 12,539; 5,132; Ragi: 2,531; 2,031; Small Millets: 4,756; 1,912; Total cereals: 98,818; 83,352; Gram: 8,236; 6,042; Red grams: 2,681; 1,175; Mashor Urud: 1,641; 494; Mung: 1,949; 589; Moth: 1,879; 358; Beans and Peas: 962; 885; Kulthi: 1,665; 484; Masur: 484; 204; Khesari: 509; 75; Other pulses:

667; 289; Total pulses: 22,666; 12,236; Total foodgrains: 121,484; 95,588; Sesamum: 2,687; 422; Groundnut: 7,553; 5,829; Rape and Mustard: 3,204; 1,482; Linseed: 1,671; 398; Castor seed: 390; 107; Total Oilseeds: 15,505; 8,238; Coconut: 894*; 5,192*; Arecanut: 143*; 126*; Cashewnut: 202*; 160*; Cardamom: 80*; 4·0*; Sugarcane: 2,307; 9,959; Tobacco: 398; 344; Cotton: 8,047; 5,562; Jute: 885; 6,369; Mesta: 314; 1,130; Sanhemp: 182; 74; Pepper: 102; 23; Ginger: 22; 20; Chillies: 760; 487; Turmeric: 56; 118; Tea: 348; 383; Bananas: 210*; 3,732*; Potato: 504; 4,233.

INDEX OF PRODUCTION—ALL COMMODITIES

(Base 1949-50 = 100)

Year	INDEX NUMBERS OF PRODUCTION		
	Foodgrains	Non-foodgrains	All commodities
1966-67	123·8	148·5	132·0
1967-68	159·9	165·7	161·8

FOODGRAINS

Foodgrains production† in 1967-68 reached the record level of 95·6 million tonnes. This is over six million tons more than 1964-65 when the production was about 89·0 million tonnes.

* Figures per 1966-67.

† Production in 1968-69 is expected to maintain the same level of 1967-68.

RICE

Rice crop occupies the largest area in the Indian Union, about 35 million hectares. During 1967-68 the area under rice cultivation was 36.7 million hectares and the production was about 39.86 million tonnes.

Tamil Nadu, Bihar, Bengal, Orissa, Madhya Pradesh, Uttar Pradesh, Assam, Andhra, Maharashtra, Mysore, Kerala and Gujarat are the main rice growing States and they together claim about 95 per cent of the total rice area in India.

WHEAT

The area under wheat is about 12.6 million hectares. During 1967-68, the area under wheat was 14.9 mill. hectares and production 16.57 mill. tonnes. Wheat is grown widely throughout the north as a winter crop, U.P., M.P. and Punjab supplying over 72 per cent of the total outturn in the country. This crop occupies, on an average, about 10 per cent of the total cultivated area.

More than one-third of the crop is irrigated.

MILLETS

Jowar :—About 17 million hectares are grown under this to yield about seven million tons of grain. Maharashtra, Andhra, Mysore, M.P. and Gujarat contribute over $\frac{3}{4}$ of the natural acreage. The jowar area and production respectively during 1967-68 were 18.6 mill. hectares and 10.1 mill. tonnes.

Bajra :—Occupies about 11 million hectares to yield about 3.6 million tons of grains. U.P., Rajasthan, Punjab, Gujarat and Maharashtra are the chief growing tracts. The duration of the crop varies from about 2½ to 5 months. During 1967-68 bajra was cultivated in 12.5 mill. hectares and produced about 5.1 mill. tons.

Ragi :—Ragi occupies about 2.02 million hectares to produce about 1.02 million tons of grain. More than half the area is in Mysore, Tamil Nadu and Andhra. The area and yield during 1967-68 were 2.3 mill. hectares and 2.0 mill. tonnes respectively.

Other Millets :—The others grouped under lesser or minor millets form about $\frac{1}{4}$ of the total area under millets and are grown in about 4.4 mill. hectares and yield about 1.6 million tons of grain. The area and yield during 1967-68 were 4.7 mill. hectares and 1.9 mill. tons respectively. The most important among them are Kora or Kangri, Kodon, Cheena or Varagu, Oodalu, and Sawan.

Maize :—Maize is cultivated in India in about 4.7 mill. hectares to produce about 4.7 mill. tons of grain. The major growing areas, U.P., Bihar, Rajasthan, Punjab and M.P. which between themselves account for about three-fourth of the maize area. The area and production during 1967-68 were 5.6 mill. hectares and 6.3 mill. tonnes respectively. The average yield is only about 10 mds. per acre. Seven hybrids (Ganga 2 and 3, Ganga Saffed, Ganga high Starch, Ranjit, Deccan and Himalaya) giving 56-70 per cent more than local varieties have been produced.

Barley :—During 1967-68 barley was cultivated in an area of 2.8 mill. hectares and the production estimate was 2.44 million met. tons.

Pulses :—Pulses are grown in over two million hectares producing over 12 million tonnes of grains.

COTTON

The area under cotton during 1967-68 was 8.047 mill. hectares against 7.8 hectares in 1966-67.

FRUIT

The total area under all fruits at the end of the Third Five Year Plan was 3.45 million acres as against 3.08 mill. acres at the end of the Second Plan.

Fruit products amounting to over 23,000 tons are now manufactured in the country. The I.C.A.R. has set up in 1967 a Central Horticultural Research Institute at Hessarghatta in Mysore for overall researches on the major tropical fruits viz. mango, banana, papaya, grapes, citrus and also on ornamental plants of commercial importance.

REGULATED MARKETS

One of the visible benefits of regulated markets, which work on democratic principles, has been the reduction in the market charges to extents varying between 29 to 50 per cent. The saving to the producer on this account is estimated to be Rs. 3 for every Rs. 100 worth of goods sold by him. Open auction system which yields better price to the producer has also been introduced in a majority of the markets. New market yards with modern amenities are also being provided.

The number of regulated markets was 1,811 and grading units 504 at the end of October 1967. Number of Statewise regulated markets and grading units in brackets were as follows: Andhra Pradesh 123 (48); Assam — (16); Bihar 141 (30); Gujarat 208 (55); Kerala 5 (5); Madhya Pradesh 155 (25); Tamil Nadu 86 (40); Maharashtra 348 (94); Mysore 155 (42); Orissa 49 (16); Punjab 243 (22); Rajasthan 131 (11); Uttar Pradesh 7 (15); West Bengal — (34); Tripura 1 (—); Delhi 3 (1); Himachal Pradesh 3 (4); Haryana 151 (1).

Marketing, Processing : The main features of the programme are:— (1) Linking credit with marketing in the form of marketing societies; (2) Developing, processing and distribution of farming requisites on co-operative lines, and (3) Promotion of storage and warehousing.

COLD STORAGE

The present capacity of cold storage in the country is about 2.5 million maunds provided by 200 cold storages mostly run by private traders. Permission has also been granted for the expansion of 99 cold storages and for setting up 223 new cold storages.

SOIL CONSERVATION

The co-ordination of soil conservation work between the States and Territories is achieved through the agency of the Central Soil Conservation Board in the Ministry of Food and Agriculture. Similar boards are also set up in most of the States and Territories.

During 1967-68, soil conservation programmes benefited an area of 13.37 lakh hectares of agricultural and forest land.

Altogether 10 research-cum-training centres under the jurisdiction of I.C.A.R. have been established at the following places:—

1. Ootacamund (Tamil Nadu) for erosion control in the Nilgiri and other hills;
2. Bellary (Mysore) for soil conservation studies in black soils;
3. Kotah (Rajasthan) with sub-centre at Agra for erosion control in the Chambal and Jumna ravines;
4. Jodhpur (Rajasthan) for afforestation in the Rajasthan desert;
5. Dehra Dun (U.P.) for studying problems of afforestation in the Sivalik hills with the sub-station at Chandigarh (Punjab)* for training *chos* (hill torrents);
6. Vasad (in the Gujarat tract) for erosion control in the ravines along rivers in Gujarat;
7. Chandigarh (outer Sivaliks);
8. Chatra (water shed management);
9. Agra (Yamuna ravines);
10. Ibrahimpatnam (Andhra) for tackling red soil problems.

Centrally sponsored soil conservation schemes were in operation in the catchments of 13 river valley projects in 14 States to reduce silt in dams and reservoirs.

* Composite State.

An Integrated All-India Soil and Land Use Survey Scheme has been executed by the Central Soil Conservation Board with four Zonal Centres at Delhi, Nagpur, Bangalore, and Haringhata, with effect from 1st March 1959. Under this scheme 5.57 lakh hectares were expected to be surveyed during 1967-68.

AGRICULTURAL EDUCATION

Eight agricultural universities of the pattern of Land Grant Colleges have already been established in Bengal (Kalyani), in Orissa (Bhubaneswar), Punjab (Chandigarh), Rajasthan (Udaipur), U.P. (Pantnagar), Andhra (Rajendranagar), Madhya Pradesh (Jabalpur), and in Mysore (Hebbal). Four more agricultural universities are proposed to be established during the Fourth Plan period including four in Maharashtra. The Indian Agricultural Research Institute, New Delhi, now declared as the only National institute for agricultural research in India also gives coaching and examination and tests for post graduate degree courses in agricultural diplomas. A total grant of Rs. 1.31 crores was released as grant for the development of agricultural universities during 1967-68.

There are 70 agricultural colleges in India.

LAND POLICY

The agrarian reforms undertaken by the various State Governments during the past few years fall generally into four broad classes:—

ABOLITION OF INTERMEDIARIES

The programme for the abolition of intermediary tenures has been almost entirely completed.

TENANCY REFORMS

The principal features of tenancy reforms are (a) security of tenure for tenants, (b) regulation of rent and (c) conversion of tenements into owners.

With the abolition of intermediaries, the tenures come under two broad categories, i.e. (i) owners who hold land directly from the State; (ii) and the tenants who hold land from owners. Their rights and obligations are regulated under tenancy laws enacted in the States. Thus the multiplicity of tenancy has been considerably reduced, and in most parts, tenants who hold land under intermediaries have now become owners of land.

Regulation of rent—Land revenue assessment: Legislation has been adopted in all States for the regulation of rent. The Plan recommendation is that it should not exceed one-fourth or one-fifth of the gross produce. But the rent fixed, however, varies with the State. Legislation has been enacted in all the States for regulating maximum rents which a landlord may receive.

Security of Tenure: Legislation providing security of tenure has been enacted in all the States.

Resumption: Legislation has been put through in most of the States prescribing a basis for the resumption of the land by the landlords.

Ownership Right for Tenants: Tenants were declared owners on payment of compensation to owners in almost all States.

Compensation to Landlords: Compensation payable by tenants for the acquisition or ownership varied from State to State except in the Punjab (where it is fixed at $\frac{3}{4}$ of the average market value). Compensation is generally a multiple of rent or land revenue. In Andhra (Hyderabad 6-15); Madhya Pradesh (Madhya Bharat: 2-8 of the net income of landlord); Ajmer: 12; former Vindhya Pradesh: 15; former Madhya Pradesh (7-10); Rajasthan (for unirrigated lands); 10 and Uttar Pradesh 10.

In the Travancore part of Kerala it is fixed at eight and a half times the net annual income.

The compensation is fixed as a multiple of the assessment in five States:—Gujarat and Maharashtra: 20-200 times of the assessment; Delhi: 20-40; Himachal Pradesh: 48 and Punjab (PEPSU): 90 times of the assessment. This compensation is generally payable in instalments (except in former Madhya Pradesh) spread over a period of 5-15 years.

FIXATION OF CEILING

Ceiling on Holding: Legislation placing ceiling on agricultural holdings has been enacted in all States and Territories except Punjab*. Though there is no outright ceiling on ownership in Punjab*, the Government is empowered to settle ejected tenants on lands under personal authorities of owners in excess of the prescribed limits.

State-wise existing and future agricultural holdings in brackets respectively in acres, allowed by any individual, are as follows:—Andhra Pradesh 27-324 (12-200); Assam 50 (50); Bihar 20-60 (20-60); Gujarat 19-132 (19-132); Jammu & Kashmir 22 $\frac{1}{2}$ (22 $\frac{1}{2}$); Kerala 15-37 $\frac{1}{2}$ (15-37 $\frac{1}{2}$); Madhya Pradesh 25-75 (25-75); Tamil Nadu 24-120 (24-120); Maharashtra 18-126 (12-126); Mysore 27-216 (18-144); Orissa 25-100 (25-100); Punjab* 30 Standard (30 Standard); Rajasthan 30 Standard (30 Standard); Uttar Pradesh 40 (12 $\frac{1}{2}$); West Bengal 30 Standard (30 Standard); Delhi 30 Standard (30 Standard); Manipur 25 (25); Tripura 25-75 (25-75).

SURPLUS LAND

As a result of implementation of legislation for ceilings on holdings considerable acreage has become surplus and allotted to tenants etc.

In Assam, Bihar, Delhi, Gujarat, Madhya Pradesh, Maharashtra and parts of Tripura provisions of the Bill have been enforced and implementation is progressing.

CONSOLIDATION

(a) **Size of Holding:** The average size of a holding for the whole of India is 7.5 acres, but this varies from State to State: Assam 5.3 acres, Bihar 4.1 acres, M.P. 13.9 acres, Tamil Nadu 9.7 acres, Orissa 5.6 acres, Punjab 11.8 acres, U.P. 5.3 acres, W. Bengal 4.7 acres.

Kashmir 3.8 acres, Kerala 2.4 acres, Mysore 7.2 acres, Rajasthan 16.9 acres.

The majority of the holdings will be less than 5 acres, a great majority indeed less than 2.

The proportion of households that held either no land or less than five acres was about three fourths, and the total share was about one-sixth of the whole area of cultivated land.

Legislation has been enacted in most of the States and in the Delhi and Himachal Pradesh Territories for prevention of holdings and consolidation of fragmented holdings. Consolidation was completed over 54.9 million acres by the end of the fourth year of the Third Plan.

In the Fourth Five Year Plan† it is proposed to spend Rs. 100 million for subsidy and loans to new settlers and Rs. 320 million for consolidation of holdings to extend the programme to another 56 million acres.

CO-OPERATIVE FARMING

The main purpose of such type of farming is to secure economy in the use of machinery, and the advantages of large-scale farming.

STATEWISE AREA AND PRODUCTION

For classification, area & production of foodgrains, and area and production of oilseeds, spices, fibre crops and cash crops, statewise see under each State.

* Composite State.

† As originally conceived.

POPULATION*

Note :- Unless otherwise stated the following article is based on the 1961 census which is the latest.

WITH only 2.4 per cent of the world's land area, India had a population of about 518 million in 1968. Population grows roughly at the rate of 2.3 per cent (i.e., about 12 million) a year.

CENSUS 1961

The population of India has registered an unprecedented increase of 21.5 per cent from 359 million in 1951 to 439 million in 1961 according to the 1961 census figures.

The number of cities with a population of more than a million has gone up from five to six or seven, the number and the order of precedence varying with the definition adopted.

URBAN DENSITY

Greater Bombay ranks first with 4.15 million and Calcutta second with 2.93 million, Delhi (including New Delhi, Shahdara and the Cantonment) third with 2.34 million, Madras fourth with 1.73 million, Hyderabad fifth with 1.25 million, and Ahmedabad sixth with 1.15 million.

If, however, the population of Calcutta (including 34 contiguous urban townships in a compact area of 164 sq. miles) is aggregated, "Greater Calcutta" ranks first with 5.55 million inhabitants. Similarly, "Metropolitan Bangalore" has a population of 1.21 million.

The density of population for the country works out to 370 per square mile as against 312 in 1951.

The highest urban density is to be found in Calcutta city (75,038). This compares with 22,293 per square mile in Greater Bombay and 55,208 in Madras.

The City-Sadar-Paharganj area of Delhi, however, has a density of 143,185 persons per sq. mile and the Karol-bagh-Patel Nagar area of Delhi a density of 74,195. According to the final census reports these two areas "can be counted in the forefront of the world's highest density areas."

The highest increase in urban population during the last ten years has been recorded in Assam (116.69 per cent). Orissa comes next with 87.02 per cent, followed by Bihar, 49.08 per cent. Madhya Pradesh showed an increase of 47.76 per cent while Kerala 42.44 per cent.

GROWTH OF POPULATION FROM 1901-1961

Years	Persons	Percentage (Approx.)
1901	236,281,245	..
1911	252,122,410	+ 5.73
1921	251,352,261	— 0.31
1931	279,015,498	+ 11.01
1941	318,701,012	+ 14.22
1951	361,129,622	+ 13.31
1961	439,235,082	+ 21.50

+ denotes increase; — denotes decrease.

POPULATION, AREA, DENSITY, SEX RATIO BY STATE

States/Union Territories	Area in sq. miles	Population			Variation 1951-61	Percentage increase 1951-61	Females per 1,000 males 1961	Population per sq. mile 1961
		Persons	Males	Females				
INDIA	1,178,995	439,235,082	226,293,620	212,941,462	77,641,652	21.50	941	370
<i>States</i>								
Andhra Pradesh ..	106,286	35,983,447	18,161,671	17,821,776	4,868,188	15.65	981	339
Assam	122,481@	11,872,772	6,328,129	5,544,643	3,042,040	34.45	876	252
Bihar	67,196	46,455,610	23,301,449	23,154,161	7,671,832	19.18	994	691
Gujarat	187,091@	20,633,350	10,633,902	9,999,448	4,370,693	26.88	940	286
Jammu & Kashmir	228,800@	3,560,976	1,896,633	1,664,343	307,124	9.44	878	..
Kerala	15,002	16,903,715	8,361,927	8,541,788	3,354,597	24.76	1,022	1,127
Madhya Pradesh ..	171,217	32,372,408	16,578,204	15,794,204	6,300,771	24.17	953	189
Maharashtra ..	306,345@	39,553,718	20,428,882	19,124,836	7,551,154	23.60	936	333
Mysore	192,203@	23,586,772	12,040,923	11,545,849	4,184,816	21.57	959	318
Orissa	155,845@	17,548,846	8,770,586	8,778,260	2,902,900	19.82	1,001	292
Punjab†	47,205	20,306,812	10,891,576	9,415,236	4,171,922	25.86	864	430
Rajasthan	342,268@	20,155,602	10,564,082	9,591,520	4,184,828	26.20	908	153
Tamil Nadu	50,331	33,686,953	16,910,978	16,775,975	3,567,906	11.85	992	669
Uttar Pradesh ..	113,654	73,746,401	38,634,201	35,112,200	10,530,659	16.66	909	649
West Bengal	33,829	34,926,279	18,599,144	16,327,135	86,623,893	32.79	878	1,032
<i>Union Territories and other areas</i>								
Andaman & Nicobar Islands	3,215	63,548	39,304	24,244	32,577	105.19	617	20
Delhi	1,483.05	2,658,612	1,489,378	1,169,234	914,540	52.44	785	4,640
Himachal Pradesh†	10,885	1,351,144	702,697	648,447	241,678	21.78	923	124
Laccadive, Minicoy & Amindivi Islands	11	24,108	11,935	12,173	3,073	14.61	1,020	2,192

* Wherever available, the area is given in kilometres. the respective article for its present area and population.

† Composite State.
@ In. sq. kms.

‡ Before reorganisation in November 1966. See under

POPULATION, AREA, DENSITY, SEX RATIO BY STATE—(Contd.)

States/Union Territories	Area in sq. miles	Population			Variation 1951-61	Percentage increase 1951-61	Females per 1,000 males 1961	Population per sq. mile 1961
		Persons	Males	Females				
Manipur	8,628	780,037	387,058	392,979	202,402	35.04	1,015	90
Tripura	4,036	1,142,005	591,237	550,768	502,976	78.71	932	283
Dadra & Nagar Haveli	489@	57,963	29,524	28,439	16,613	39.56	963	307
Goa, Daman & Diu	1,426	626,978	302,953	324,025	—10,613	—1.66	1,070	440
NEFA	81,425.9@	336,558	177,680	158,878	..	..	894	11
Nagaland	6,366	369,200	191,027	178,173	28,975	14.07	933	58
Pondicherry ..	481.8@	369,079	183,347	185,732	51,826	16.34	1,013	1,995

STATE-WISE SCHEDULE CASTES AND SCHEDULE TRIBES (1961)*

State/Territory	Schedule Castes (Rural & Urban)		Schedule Tribes (Rural & Urban)		Urban	
	Males	Females	Males	Females	Schedule Castes	Schedule Tribes
Andhra Pradesh	2,512,325	2,461,291	670,368	654,000	552,088	57,081
Assam	389,271	343,485	1,057,076	1,011,288	60,670	68,033
Bihar	3,218,935	3,317,940	2,087,944	2,116,776	362,221	109,945
Gujarat	693,436	673,819	1,398,478	1,355,968	334,182	137,950
Jammu & Kashmir ..	134,765	133,765	..	..	20,895	..
Kerala	705,709	716,348	103,995	104,001	123,211	8,159
Madhya Pradesh ..	2,155,875	2,097,149	3,334,363	3,344,047	455,294	75,085
Maharashtra	1,135,191	1,091,723	1,211,605	1,185,554	485,453	89,910
Mysore	1,586,547	1,530,685	98,337	93,759	508,487	9,935
Orissa	1,371,410	1,392,448	2,094,753	2,129,004	126,026	87,551
Punjab†	2,208,473	1,930,633	6,964	7,168	480,398	..
Rajasthan	1,747,476	1,612,164	1,198,886	1,110,561	413,045	47,240
Tamil Nadu	3,047,613	3,024,923	129,578	123,068	925,923	14,328
Uttar Pradesh	7,944,364	7,472,881	..	..	1,079,775	..
West Bengal	3,629,182	3,321,544	1,047,287	1,016,596	676,569	47,771
A. & N. Islands@@	..	..	7,318	6,804	..	..
Delhi	189,470	152,085	..	..	272,243	..
Himachal Pradesh†	191,429	178,487	54,719	53,475	12,142	350
L. M. & A. Islands	..	..	11,466	11,925	..	..
Manipur	6,886	6,490	123,162	125,887	158	4,146
Tripura	62,069	55,656	184,174	175,896	6,748	3,698
Dadra & Nagar Haveli	498	686	26,002	25,259	..	..
NEFA .. ..	..	..	3,363	1,679	..	..
Nagaland	80	46	171,233	172,464	95	9,863
Pondicherry	28,804	28,057	..	..	3,725	..
All India	32,963,779	31,547,534	15,040,707	14,842,763	6,899,848	773,552

* Excludes Goa, Daman and Diu. † Composite State. See under the respective State articles on Punjab and Haryana for their present area and population. ‡ Before reorganisation in Nov. 1966. See under the respective article for its present area and population. @ In sq. kms. @@ A. N. means Andaman & Nicobar.

Rural and Urban Population:—The first figure shows rural population and the second urban: *States:* Andhra Pradesh 29,708,939; 6,274,508; Assam 10,959,744; 913,028; Bihar 42,541,690; 3,913,920; Gujarat 15,316,726; 5,316,624; Jammu & Kashmir 2,967,661; 593,315; Kerala 14,349,574; 2,554,141; Madhya Pradesh 27,745,174; 4,627,234; Maharashtra 28,391,157; 11,162,561; Mysore 18,320,279; 5,266,493; Orissa 16,439,196; 1,109,650; Punjab† 16,218,217; 4,088,595; Rajasthan 16,874,124; 3,281,478; Tamil Nadu 24,696,425; 8,990,528; Uttar Pradesh 64,266,506; 9,479,895; West Bengal 26,385,437; 8,540,842.

Territories:—Andaman and Nicobar Islands 49,473; 14,075; Delhi 299,204; 2,359,408; Himachal Pradesh* 1,287,216; 63,928; Laccadive, Minicoy and Amindivi Islands 24,108; —; Manipur 712,320; 67,717; Tripura

1,039,008; 102,997; Dadra and Nagar Haveli 57,963; —; Goa, Daman & Diu —; —; N.E.F.A. 336,558; —; Nagaland 350,043; 19,157; Pondicherry 280,082; 88,997; Sikkim 155,341; 6,848.

TOWNS—STATE-WISE

States: Andhra Pradesh 223; Assam 60; Bihar 153; Gujarat 181; Jammu & Kashmir 43; Kerala 92; Madhya Pradesh 219; Maharashtra 265; Mysore 230; Orissa 62; Punjab† 187; Rajasthan; Tamil Nadu 338; Uttar Pradesh 649; West Bengal 184.

Union territories and other areas: Andaman & Nicobar Islands 1; Delhi 3; Himachal Pradesh* 13; Laccadive, Minicoy & Amindivi Islands N.A.; Manipur 1; Tripura 6; Dadra and Nagar Haveli N.A.; Goa, Daman & Diu —; N.E.F.A. —; Nagaland 3; Pondicherry 5.

* Before reorganisation in Nov. 1966.

† Composite State.

Cities with a population of over one million each in 1961

Andhra Pradesh: Hyderabad 1,251,119; Gujarat: Ahmedabad 1,149,918; Maharashtra: Greater Bombay 4,152,056; Mysore: Bangalore 1,206,961; Tamil Nadu: Madras 1,729,141; West Bengal: Calcutta 2,927,289.

SNOW-BOUND AREAS

List of snow-bound areas in the States and their provisional population in 1961. Under each State the population of such areas in districts with the population of tahsils or sub-divisions in such areas of the districts is given :—

Punjab State†: 178,694 (males 92,541; females 86,153): (i) Lahaul and Spiti District @ 20,478 (males 11,538; females 8,940): (a) Spiti 5,324 (males 2,873; females 2,451); (b) Lahaul 15,154 (males 8,665; females 6,489); (ii) Kangra District @ 158,216 (males 81,003; females 77,213): (a) Kulu Sub-division @ 152,766 (males 78,431; females 74,335); (b) Bara Banghal Area 5,450 (males 2,572; females 2,878).

*Himachal Pradesh Territory**: 395,333 (males 206,967; females 188,366): (i) Chamba District 51,393 (males 27,655; females 23,738): (a) Pangi Sub-tahsil 11,644 (males 6,116; females 5,528); (b) Bharmur Sub-tahsil 25,582 (males 14,086; females 11,496); (c) Lylh Kanungo Circle of Chamba Tahsil 14,167 (males 7,453; females 6,714); (ii) Kinnaur District 40,640 (males 20,489; females 20,151): (a) Nichar Sub-division 12,062 (males 6,373; females 5,689); (b) Pooh Sub-division 13,012 (males 6,248; females 6,764); (c) Kalpa Sub-division 15,566 (males 7,868; females 7,698); (iii) Mahasu District 238,963 (males 126,143; females 112,820): (a) Rampur Tahsil 43,757 (males 22,519; females 21,238); (b) Chopal Tahsil 40,384 (males 22,603; females 17,781); (c) Theog Tahsil 41,014 (males 21,899; females 19,115); (d) Rohru Tahsil 51,805 (males 26,218; females 25,587); (e) Jubbah Tahsil 17,636 (males 9,413; females 8,223); (f) Kumarsain Sub-tahsil 23,822 (males 12,437; females 11,385); (g) Kot-Khai Sub-tahsil 20,545 (males 11,054; females 9,491); (iv) Mandi District 64,337 (males 32,680; females 31,657): (a) Pargana Chohar of Tahsil Jogindernagar 7,438 (males 3,637; females 3,801); (b) Parganas Uttarsal Badar and Snor of Tahsil Mandi Sadar 14,416 (males 7,501; females 6,915); (c) Parganas Maidangarh Dhangyara and Sraaj of Tahsil Chachiot 42,483 (males 21,542; females 20,941).

Uttar Pradesh State: Pithoragarh District (Villages of Sipu, Marcha, Tejang, Khimling, Go, Filam, Dantu, Yangsung, Baun, Saun Dugtu, Dugtu, Baling, Nagling, Chal, Sela, Kut, Navi, Rung, Kang, Nepal Chyon, Gunji, Garbyang and Bundi of Dharchula Sub-division) 6,011 (males 3,150; females 2,861).

Jammu & Kashmir State: 300,657 (males 157,278; females 143,379): (i) Kathna District: Basohli Tahsil 16,418 (males 8,792; females 7,626); (ii) Poonch District 43,776 (males 23,050; females 20,726): (a) Haveli Tahsil 19,211 (males 10,078; females 9,133); (b) Mendhar Tahsil 6,607 (males 3,452; females 3,155); (c) Rajouri Tahsil 17,958 (males 9,520; females 8,438); (iii) Baramulla District 29,018 (males 15,783; females 13,235): (a) Karnah Tahsil 18,237 (males 9,929; females 8,308); (b) Handwara Tahsil 2,299 (males 1,244; females 1,055); (c) Sopore Tahsil 8,482 (males 4,610; females 3,872); (iv) Ladakh District 86,927 (males 43,695; females 43,232): (a) Leh Tahsil 42,486 (males 21,086; females 21,400); (b) Kargil Tahsil 44,441 (males 22,609; females 21,832); (v) Udhampur District: Reasi Tahsi 86,927 (males 43,695; females 43,232); (vi) Doda District 99,661 (males 52,988; females 46,673); (a) Ramaban Tahsil 36,579 (males 19,201; females 17,378); (b) Doda Tahsil 20,848 (males 11,282; females

9,566); (c) Kishtwar Tahsil 14,963 (males 7,955; females 7,008); (d) Bhaderwah 27,271 (males 14,550; females 12,721); (vii) Anantnag District: Anantnag Tahsil 503 (males 275; females 228).

List of Agency areas in Andhra Pradesh State and their population in 1961; Andhra Pradesh 530,803 (males 268,685; females 262,118): (i) Srikakulam 71,349 (males 36,337; females 35,012): (a) Parvatipuram 43,544 (males 22,321; females 21,223); (b) Salur 7,721 (males 3,942; females 3,779); (c) Palakonda 20,084 (males 10,074; females 10,010); (ii) Visakhapatnam 196,356 (males 100,514; females 95,842): (a) Narasapatnam (Agency) 4,073 (males 2,049; females 2,024); (b) Chintapalle (Agency) 44,039 (males 22,885; females 1,154); (c) Chodavaram (Agency) 8,072 (males 4,127; females 3,945); (d) S. Kota (Agency) 8,072 (males 4,005; females 4,067); (e) Paderu (Agency) 132,100 (males 67,448; females 64,652); (iii) East Godavari 120,141 (males 60,224; females 59,917): (a) Pratipadu Taluk 7,953 (males 4,045; females 3,908); (b) Rampachodavaram Taluk 48,618 (males 24,156; females 24,462); (c) Yellavaram Taluk 63,570 (males 32,023; females 31,547); (iv) West Godavari: Polavaram 46,271 (males 23,072; females 23,199); (v) Khammam 96,686 (males 48,538; females 48,148): (a) Bhadrachalam Taluk 55,707 (males 27,89; females 27,816); (b) Nugur Taluk 40,979 (males 20,647; females 20,332).

CITIES OF POPULATION 100,000 AND OVER IN EACH STATE FOR 1961

States and Cities	Population	Variation 1951-61	Females per 1,000 males
<i>Andhra Pradesh :</i>			
Vijayawada	230,397	69,199	947
Guntur	187,122	61,867	979
Visakhapatnam	182,004	73,962	920
Warangal	156,106	22,976	929
Rajahmundry	130,002	24,726	985
Kakinada	122,865	22,913	971
Eluru	108,321	21,108	1,004
Nellore	106,776	25,296	932
Bandar (Masulipatam)	101,417	23,464	947
Kurnool	100,815	40,593	938
<i>Assam :</i>			
Shillong	102,398	43,886	763
Gauhati	100,707	57,092	497
<i>Bihar :</i>			
Patna	364,594	81,115	769
Jamshedpur	328,044	109,882	784
Dhanbad-Jaria-Sindri			
Town Group	200,618	127,016	635
Gaya	151,105	17,405	834
Monghyr-Jamalpur			
Town Group	146,807	28,287	875
Bhagalpur	143,850	29,320	817
Ranchi	140,253	33,404	792
Muzaffarpur	109,048	35,454	695
Darbhanga	103,016	18,200	870
<i>Gujarat :</i>			
Ahmedabad	1,206,001	328,672	804
Baroda	298,398	86,991	857
Surat	288,026	64,844	916
Rajkot	194,145	62,076	927
Bhavnagar	176,473	38,522	916
Jamnagar	148,572	44,153	914

* Before reorganisation in Nov. 1966. † Composite State. @ Now in Himachal Pradesh.

CITIES OF POPULATION 100,000 AND OVER IN EACH STATE FOR 1961—Continued.

States and Cities	Population	Variation 1951-61	Females per 1,000 males	States and Cities	Population	Variation 1951-61	Females per 1,000 males
<i>Jammu & Kashmir :</i>				<i>Rajasthan :</i>			
Srinagar	295,084	..	863	Jaipur	403,444	112,314	856
Jammu	102,738	..	784	Ajmer	231,240	34,607	887
<i>Kerala :</i>				Jodhpur	224,760	44,043	847
Cochin-Ernakulam-				Bikaner	150,634	33,521	884
Alwaye Town Group	313,030	119,542	932	Kota	120,345	55,238	826
Trivandrum	302,214	104,621	968	Udaipur	111,139	21,518	844
Calicut Town Group	248,548	89,824	965	<i>Tamil Nadu :</i>			
Alleppey	138,834	22,556	945	Madras	1,729,141	313,085	901
<i>Madhya Pradesh :</i>				Madurai	424,810	63,029	952
Indore	394,941	84,082	851	Coimbatore	286,305	88,550	885
Jabalpur	367,014	110,016	809	Tiruchirapalli	249,862	30,941	945
Gwalior	300,587	59,010	853	Salem	249,145	46,810	957
Bhopal	222,948	120,615	771	Palayamcottai Town			
Ujjain	144,161	14,344	872	Group	190,048	29,119	1,016
Raipur	139,792	49,988	890	Tuticorin Town Group	127,356	28,490	966
Durg Town Group ..	133,230	112,981	594	Vellore Town Group	122,761	16,737	978
Sagar	104,676	24,608	859	Kurichi Town Group	119,380	52,212	954
<i>Maharashtra :</i>				Thanjavur	111,099	10,419	979
Greater Bombay ..	4,152,056	1,157,612	663	Nagercoil	106,207	26,923	990
Poona Town Group ..	737,426	137,075	870	<i>Uttar Pradesh :</i>			
Nagpur Town Group	690,302	205,038	886	Kanpur Town Group	971,062	265,679	739
Sholapur	337,583	60,496	902	Lucknow Town Group	655,673	158,812	789
Nasik Town Group ..	215,576	58,688	833	Agra Town Group ..	508,680	133,015	824
Kalyan Town Group	194,334	54,573	869	Varanasi Town Group	489,864	134,085	812
Kolhapur Town				Allahabad Town			
Group	193,186	56,351	884	Group	430,730	98,435	778
Amravati	137,875	35,069	852	Meerut Town Group	283,997	50,814	802
Sangli Town Group ..	127,183	36,672	906	Bareilly Town Group	272,828	64,745	841
Malegaon	121,408	66,386	893	Moradabad Town			
Ahmednagar	119,020	13,745	886	Group	191,828	29,974	845
Akola	115,760	26,154	854	Saharanpur	185,213	36,778	821
Thana Town Group ..	109,215	41,456	774	Aligarh	185,020	43,402	825
<i>Mysore :</i>				Gorakhpur	180,255	47,819	757
Bangalore Town				Jhansi Town Group	169,712	42,347	840
Group	1,206,961	420,618	874	Dehra Dun Town			
Mysore	253,865	9,542	904	Group	156,341	12,125	804
Hubli-Dharwar Town				Rampur	135,407	1,130	850
Group	171,326	41,717	911	Mathura Town Group	125,258	19,485	814
Mangalore Town				Shahjahanpur Town			
Group	170,253	53,170	982	Group	117,702	12,867	868
Kolar Gold Fields ..	146,811	— 12,273	984	Mirzapur-cum-			
Belgaum Town Group	146,790	26,458	879	Vindhyachal ..	100,097	13,569	893
<i>Orissa :</i>				<i>West Bengal :</i>			
Cuttack	146,308	43,803	722	Calcutta	2,927,289	228,795	612
<i>Punjab :*</i>				Howrah	512,598	78,968	630
Amritsar Town Group	398,047	61,933	789	South Suburban			
Jullundur Town				Group	341,712	128,497	740
Group	265,030	63,040	791	Asansol Town Group	168,689	73,925	660
Ludhiana	244,032	90,237	829	Bhatpara	147,253	12,714	585
Ambala Town Group	181,747	29,725	772	Kharagpur	147,253	17,617	810
Patiala	125,234	27,365	798	Bally	130,896	67,758	553
				Kamarhati	125,457	48,206	648
				South Dum-Dum ..	111,284	49,893	778
				Burdwan	108,224	32,848	789
				Baranagar	107,837	30,711	762
				<i>Delhi :</i>			
				Delhi	2,061,758	941,888	788
				New Delhi	261,545	— 14,769	727

* Composite State.

TOWNS

Andhra Pradesh

50,000—1,00,000 (8)

Nizamabad 79,093; Tenali 78,525; Vizianagaram 76,808; Adoni 69,951; Kothagudem 69,728; Vijayapuri 55,300; Anantapur 52,280; Proddatur 50,616.

20,000—50,000 (51)

Cuddapah 49,027; Guntakal 48,083; Chittoor 47,876; Anakapalle 46,402; Chirala 45,410; Gudivada 44,801; Bhimavaram 43,821; Nandyal 42,927; Khammam 35,888; Tirupati 35,845; Ongole 35,804; Mahbubnagar 35,588; Srikakulam 35,071; Bapatla 33,668; Hindupur 32,445; Samalkot 31,924; Karimnagar 31,554; Bodhan 30,929; Kagaznagar 30,604; Narsapur 30,064; Narasaraopet 29,744; Malkapuram 29,186; Billampalle 29,101; Palacole 28,481; Pithapuram 27,910; Tadepalligudem 27,086; Kalahasti 26,460; Salur 26,111; Gudur 25,618; Bobbili 25,592; Parvatipuram 25,281; Tanuku 24,657; Madanapalle 24,386; Nalgonda 24,383; Kadiri 24,307; Peddapuram 24,302; Amalapuram 24,063; Rayadrug 23,779; Tadipatri 23,129; Ponnur-Nidubrole 22,872; Narasapattanam 22,768; Chilakaluripet 22,666; Tuni 22,452; Mangalagiri 22,182; Repalle 21,941; Yemmiganur 21,061; Adilabad 20,970; Jagtial 20,941; Kavali 20,544; Narayanpet 20,504; Dharmavaram 20,405.

Assam

50,000—1,00,000 (1)

Dibrugarh 58,480.

20,000—50,000 (11)

Silchar 41,062; Nowgong 38,600; Digboi Town Group 35,028; Pandu 31,173; Karimganj 28,683; Tinsukia 28,468; Dhubri 28,355; Jorhat 24,953; Tezpur 24,159; Lumding 23,186; Barpeta 22,207.

Bihar

50,000—1,00,000 (6)

Chapra-Revelganj Town Group 88,264; Bihar 78,581; Arrah 76,766; Dinapur Town Group 70,766; Barauni-Teghra Town Group 69,562; Katihar 59,344.

20,000—50,000 (30)

Kumardhubi Town Group 42,722; Hazaribagh 40,958; Purnea 40,602; Bettiah 39,990; Dehri 38,092; Sasaram 37,782; Giridih 36,881; Mokameh 35,743; Dinapur Nizammat 35,159; Hajipur 34,044; Motihari 32,620; Jaridih Bazar 31,605; Sahibganj 31,409; Chakradharpur 30,906; Madhubani 28,229; Siwan 27,370; Begusarai 27,346; Kishanganj 27,002; Samastipur 25,726; Daltonganj 25,270; Jugsalai 24,528; Jamui 24,213; Teghra 23,573; Jehanabad 23,209; Buxar 23,068; Chaibasa 22,019; Jhumri-Tilaiya 21,777; Barahiya 20,502; Chakradharpur 20,260; Ramgarh Cantonment 20,041.

Gujarat

50,000—1,00,000 (10)

Nadiad 78,952; Porbandar 75,081; Junagadh 74,298; Broach 73,639; Veraval Town Group 60,857; Navsari 53,600; Godhra 52,167; Patan 51,953; Cambay 51,291; Morvi 50,192.

20,000—50,000 (42)

Dhoraji 48,951; Surendranagar 48,602; Gondal 45,069; Anand 40,458; Bhuj 40,180; Viramgam 38,955; Bulsar 37,586; Dohad 35,483; Petlad 35,239; Amreli 34,699; Sidhpur 33,850; Mahuva 32,732; Mehsana 32,577; Dhrangadhra 32,197; Kalol 31,940; Jetpur 31,186; Savarkundla

31,051; Dabhoi 30,841; Palanpur 29,139; Upleta 27,613; Dholka 27,476; Wadhwan 27,104; Kapadvanj 27,053; Mandvi 26,609; Gandhidham 26,514; Botad 26,168; Visnagar 25,982; Bilimora 24,941; Borsad 24,704; Palitana 24,581; Kadi 23,661; Anjar 23,301; Wankaner 22,509; Limbdi 21,801; Rajpipla 21,426; Umreh 21,244; Mangrol 21,089; Unjha 20,371; Ankleshwar 20,287; Khambhalia 20,064.

Jammu & Kashmir

50,000—1,00,000 (Nil)

20,000—50,000 (1)

Anantnag 21,087.

Kerala

50,000—1,00,000 (4)

Quilon 91,018; Palghat 77,620; Trichur 73,038; Kottayam 52,685.

20,000—50,000 (25)

Cannanore Town Group 48,960; Tellicherry 44,763; Kayamkulam 44,571; Badagara 43,908; Changanacherry 42,376; Kilikolloor 32,273; Shertali 31,155; Chowghat 28,903; Kasargod 27,635; Chittoor-Thathamangalam 26,457; Thiruvalla 24,242; Azhikode 24,212; Feroke 24,124; Kanhangad 23,621; Ponnani 22,977; Muvatupuzha 22,900; Katakampally 22,488; Irinjalakuda 22,335; Chengannur 22,277; Attingal 22,051; Nileshevar 20,956; Kundara 20,945; Parur 20,852; Haripad 20,378; Neyyattinkara 20,268.

Madhya Pradesh

50,000—1,00,000 (4)

Ratlam 87,472; Bilaspur 86,706; Burhampur 82,090; Khandwa 65,505; Murwara Town Group 60,472.

20,000—50,000 (30)

Mhow Cantonment 48,032; Damoh 46,656; Rajnandgaon 44,678; Rewa 43,065; Mandsaur 41,876; Satna 38,046; Chhindwara 37,244; Raigarh 36,933; Neemuch 36,287; Dewas 34,577; Itarsi 36,611; Dhamtari 31,552; Jaora 31,140; Guna 31,031; Khargone 30,652; Seoni 30,274; Datia 29,420; Shivpuri 28,681; Sehore 28,489; Morena 28,337; Dhar 28,325; Bhind 28,208; Vidisha 27,718; Bina 27,476; Rajhara-Jharandalli 23,346; Harda 22,276; Shahdol 22,196; Chhatarpur 22,146; Tikamgarh 20,469; Jagdalpur 20,412.

Maharashtra

50,000—1,00,000 (11)

Dhulia 98,893; Aurangabad Town Group 97,701; Nanded 81,087; Jalgaon 80,351; Bhusawal Town Group 79,121; Jalna 67,158; Gondia 56,320; Achalpur Town Group 54,028; Chanda 51,484; Ichalkaranji 50,978; Barsi 50,389.

20,000—50,000 (44)

Wardha 49,113; Satara 48,709; Bhiwandi 47,630; Amalner 46,963; Yeotmal 45,587; Pandharpur 45,421; Khamgaon 44,432; Nandurbar 41,055; Latur 40,913; Dehu Town Group 40,902; Hinganghat 36,890; Parbhani 36,795; Ambarnath 34,509; Chalisgaon 34,280; Karad 33,772; Bhiri 33,066; Manmad 31,551; Akot 31,459; Ratnagiri 31,091; Malkapur 29,687; Bassein Town Group 28,238; Pulgaon 28,063; Bhandara 27,710; Dhond 27,168; Washim 26,494; Chopda 26,460; Karanja 26,440; Tum-sar 24,910; Badnera 23,840; Hingoli 23,407; Shrirampur 22,802; Umrer 22,682; Anjangaon 21,931; Dharangaon 21,771; Sangamner 21,729; Lonavala 21,713; Shegaon 21,674; Arvi 21,478; Akkalkot 21,278; Baramati 21,118; Yeola 21,039; Shirpur 20,846; Uran-Islampur 20,817; Ballarpur 20,351.

Mysore State

50,000—1,00,000 (9)

Gulbarga 97,069; Bellary 85,673; Bijapur 78,854; Davanger 78,124; Gadag-Betgeri 76,614; Bhadravati Town Group 65,776; Shimoga 63,764; Raichur 63,329; Hospet 53,242.

20,000—50,000 (30)

Kargal 49,878; Tumkur 47,277; Bagalkot 39,934; Mandya Town Group 33,347; Chitradurga 33,336; Kolair 32,587; Bidar 32,420; Hassan 32,172; Ranibennur 31,304; Chikmagalur 30,253; Naipani 29,374; Rabkavi Banhatti 28,871; Doddaballapur 27,361; Channapatna 26,467; Yadgir 25,764; Udipi 24,610; Chamarajanagar Ramasamudram 24,430; Guledgud 24,292; Ilkal 24,222; Jamkhandi 24,017; Karwar 23,906; Chikballapur 23,025; Harihar 22,829; Kollegal 22,663; Gokak 21,854; Sirsi 21,240; Haveri 21,043; Konnur 20,795; Shahbad 20,454; Sagar 20,414.

Orissa

50,000—1,00,000 (3)

Rourkela 90,287; Berhampur 76,931; Puri 60,815.

20,000—50,000 (8)

Sambalpur 38,915; Bhubaneswar 38,211; Balasore 33,931; Jeypore 25,291; Bhadrak 25,285; Parlakimedi 22,708; Birmiritrapur 20,301; Bariyada 20,301.

Punjab *

50,000—1,00,000 (9)

Chandigarh Town Group 99,262; Ferozepur 97,932; Rohtak 88,193; Jagadhri Town Group 84,337; Karnal 72,109; Panipat 67,026; Hissar 60,222; Bhiwani 58,194; Pathankot 54,810; Bhatinda 52,253; Batala 51,300; Hoshiarpur 50,739; Faridabad 50,709.

20,000—50,000 (31)

Moga 47,779; Abohar 46,863; Sonapat 45,882; Simla 42,597; Nangal Town Group 42,359; Malerkotla 39,543; Phagwara 37,929; Gurgaon 37,868; Rewari 36,994; Kaithal 34,890; Hansi 33,712; Sirsa 33,363; Kot Kapura 32,021; Fazilka 32,015; Muktsar 30,765; Nabha 30,603; Jagraon 29,617; Kapurthala 29,334; Sangrur 28,344; Rajpura 27,925; Palwal 27,863; Gurdaspur 27,665; Faridkot 26,735; Khanna 24,416; Jind 24,216; Narnaul 23,959; Mansa 22,473; Sunam 21,408; Barnala 21,354; Tarn Taran 20,961; Malout 20,774.

Rajasthan

50,000—1,00,000 (4)

Alwar 72,707; Ganganagar 63,854; Beawar 53,931; Sikar 50,636.

20,000—50,000 (22)

Bharatpur 49,776; Bhilwara 43,499; Tonk 43,413; Churu 41,727; Pali 33,303; Sardarshahar 32,072; Sujargarh 30,761; Barmer 27,600; Dholpur 27,412; Fatehpur 27,039; Ratangarh 26,631; Bundi 26,478; Kishangarh 25,244; Jhunjhunu 24,962; Nawalgarh 24,911; Nagaur 24,296; Nasirabad 24,148; Ladnu 23,825; Karauli 23,696; Baran 22,764; Gangapur 22,591; Sawai Madhopur 20,952; Hindaun 20,237.

Tamil Nadu

50,000—1,00,000 (22)

Kumbakonam Town Group 96,746; Dindigal 92,947; Kancheepuram 92,714; Valparai 80,023; Tiruppur 79,773; Cuddalore 79,168; Kallidaikurichi Town Group 75,657; Erode 73,762; Rajapalayam 71,203; Mount

Alandur Town Group 63,702; Nagapattinam Town Group 61,305; Tirupparan-Kundram Town Group 57,748; Palni Town Group 56,909; Aruppukotai Town Group 55,977; Virudhunagar 54,827; Pollachi 54,369; Coonoor Town Group 52,992; Mayooram 51,363; Karur 50,564; Pudukkotal 50,488; Gudiyatam 50,384; Ootacamund 50,140.

20,000—50,000 (60)

Ranipet Town Group 48,003; Vaniambadi Town Group 47,918; Golden Rock (Ponmalaipatti) Town Group 47,070; Srivilliputtur 46,816; Tiruvannamalai 46,441; Bodinayakanur 44,914; Karaikudi 43,698; Villupuram 43,496; Srirangam 41,949; Kadayannallur 41,249; Chidambaram 40,694; Ambur 39,455; Tiruvattiyur Town Group 37,764; Mettupalayam 36,496; Periyakulam 36,335; Paramakudi Town Group 34,521; Tenkasi 34,403; Tindivanam 34,342; Tambaram Town Group 34,329; Mannargudi 33,558; Kovilpatti 33,305; Cumbum 32,517; Arni 31,351; Tirupattur 30,799; Sivakasi 30,690; Arkonam 30,658; Puliyanagudi 30,648; Tiruvarur 30,137; Attur 29,018; Udumalpet 28,345; Kayalpattinam Town Group 28,336; Dharmapuri 28,031; Mettur 27,698; Gobichettipalayam 27,004; Ramanathapuram 26,890; Dharapuram 26,490; Chingleput 25,977; Udangudi Town Group 25,946; Anamalai Town Group 25,587; Devakottai 25,524; Uthamapalayam Town Group 25,427; Komarapalayam 24,757; Pattukottai 24,726; Gudalur 24,635; Allinagaram 24,606; Edappadi 24,366; Sankaranayinar Koil 24,089; Rasipuram 23,871; Krishnagiri 23,827; Erode 2,766; Tiruchendur Town Group 22,752; Bhavani 22,713; Nellikuppam 22,168; Tiruchengode 21,386; Nelliyalam Town Group 20,877; Kotagiri Town Group 20,737; Chinnamanur 20,586; Shencottah 20,528; Seithur Town Group 20,403; Lelgudi Town Group 20,009.

Uttar Pradesh

50,000—1,00,000 (16)

Firozabad 98,611; Farrukhabad-cum-Fatehgarh Town Group 94,591; Faizabad Town Group 88,296; Muzaffarnagar 87,622; Ghaziabad 70,438; Etawah 69,681; Amroha 68,965; Sambhal 68,940; Hathras 64,045; Jaunpur 61,851; Hardwar Town Group 59,960; Budaun 58,770; Pilibhit 57,527; Bahraich 56,033; Hapur 55,248; Sitapur 53,884.

20,000—50,000 (51)

Maunath Bhanjan 48,785; Chandausi 48,557; Roorkee Town Group 45,801; Bulandshahr 44,163; Gonda 43,496; Khurja 41,491; Basti 38,403; Ballia 38,216; Haidwani-cum-Kath Godam 38,032; Banda 37,744; Kasganj 37,559; Ghazipur 37,147; Hardoi 36,725; Bara Banki Town Group 34,334; Najibabad 34,310; Bijnor 33,821; Mainpuri 33,610; Tanda 32,687; Azamgarh 32,391; Lakhimpur 32,285; Balrampur 31,776; Nagina 30,427; Deoband 29,980; Rae Bareilly 29,940; Unnao 29,780; Orai 29,587; Deoria 28,407; Shahabad 28,399; Fatehpur 28,323; Kairana 26,454; Samli 26,397; Sikandrabad 26,290; Sultanpur 26,081; Lalitpur 25,220; Vrindaban 25,138; Mahoba 24,878; Etah 24,719; Kannauj 24,646; Modinagar 24,266; Kashipur 24,258; Tilhar 23,936; Konch 23,708; Shikohabad 23,458; Sahaswan 23,293; Baraut 22,818; Chandpur 22,017; Bela 21,397; Kiratpur 21,127; Mughalsarai Town Group 21,086; Mawana 20,677; Bhadohi 20,302; Mau Ranipur 20,224.

West Bengal

50,000—1,00,000 (23)

Panihati 93,749; Serampur 91,521; Hooghly-Chinsurah 83,104; Titagarh 76,429; Nabadwip 72,861; Krishnagar

* Composite State.

70,440; Kanchrapara 68,966; Chandernagore 67,105; Uluberia Town Group 66,299; Siliguri 65,471; Ashoknagar Town Group 64,716; Barrackpur 63,778; Kasbah Town Group 62,935; Bankura 62,833; Berhampur 62,317; Barasat-Nabapally Town Group 61,621; Midnapur 59,532; Naihati 58,457; North Barrackpur 56,683; Ranaghat Town Group 55,100; Basirhat 53,943; Halisahar 51,423; Santipur 51,190.

20,000—50,000 (46)

Jalpaiguri 48,738; Purulia 48,134; Sankrail Town Group 47,174; English Bazar 45,900; Bansberia 45,463; Baidyabati 44,312; Champdani 42,129; Cooch Behar 41,922; Durgapur Steel Project Area Town Group 41,696; Bangaon 41,082; Batanagar Town Group 40,656; Darjeeling 40,651; Budge Budge 39,824; Rishra 38,535; North Dum Dum 38,140; Bhadreswar 35,489; Chakdah 35,089; Kulti 34,280; Raiganj 32,290; Kotrung 31,031; Vishnupur 30,958; Domjur Town Group 30,843; Raniganj 30,113; Konnagar 29,443; Garulia 29,041; Chittaranjan 28,957; Alipur Duar 28,927; Khardah 28,362; Balurgharh 26,999; Kalimpong 25,105; Rajpur 24,812; Jangipur 24,201; Jiaganj Azimganj 23,675; Baduria 23,573; Bolpur 23,355; Suri 22,841; Kalna 22,603; Kalyani-Kataganj and Gokulpur Town Group 22,317; Contai 22,094; Uttarpara 21,132; Ghatal 21,062; New Barrackpur Colony 20,871; Katwa 20,621; Jagacha Town Group 20,094; Dum Dum 20,041; Mainguri Town Group 20,014.

Manipur

50,000—1,00,000 (1)

Imphal 67,717.

20,000—50,000 (Nil).

Tripura

50,000—1,00,000 (1)

Agartala 54,878.

20,000—50,000 (Nil).

Pondicherry

50,000—1,00,000 (Nil).

20,000—50,000 (2)

Pondicherry 40,421; Karaikal 22,252.

In Andaman and Nicobar Islands, Himachal Pradesh@ and Nagaland towns have population of only less than 20,000.

LITERACY (1961)

State-wise figures for literacy per 1,000 population with figures for males and females in brackets respectively are:—

States : Andhra Pradesh 212 (302; 120); Assam 274 (373; 160); Bihar 184 (298; 69); Gujarat 305 (411; 191); Jammu & Kashmir 110 (170; 43); Kerala 468 (550; 389); Madhya Pradesh 171 (270; 67); Tamil Nadu 314 (445; 182); Maharashtra 298 (420; 168); Mysore 254 (361; 142); Orissa 217 (347; 86); Punjab† 242 (330; 141); Rajasthan 152 (237; 58); Uttar Pradesh 176 (273; 70); West Bengal 293 (401; 170).

Union territories and other areas : Andaman 336 (424; 194); Delhi 527 (608; 425); Himachal Pradesh@ 171 (272; 62); Laccadive 233 (358; 110); Manipur 304 (451; 159); Tripura 202 (296; 102); Dadra and Nagar Haveli 95 (147; 41); Goa, Daman & Diu* N.A.; NEFA 72 (123; 15); Nagaland 179 (240; 113); Pondicherry 374 (504; 246).

Area, Population and Literacy of States and Districts in each State

States/Districts	Area in sq. miles	Total Population			Literacy	
		Total	Males	Females	Males	Females
INDIA	1,178,995	439,235,082	226,293,620	212,941,462	77,828,163	27,505,118
<i>Andhra Pradesh</i>	106,286	35,983,447	18,161,671	17,821,776	5,482,333	2,144,194
Srikakulam	3,901	2,340,878	1,149,447	1,191,431	283,893	83,831
Visakhapatnam	5,200	2,290,759	1,142,647	1,148,112	286,025	106,946
East Godavari	4,181	2,608,375	1,305,003	1,303,372	435,878	242,343
West Godavari	2,980	1,978,257	993,020	985,237	378,492	230,071
Krishna	3,378	2,076,956	1,058,323	1,018,633	410,675	236,381
Guntur	5,802	3,009,900	1,522,865	1,487,035	568,616	263,843
Nellore	7,974	2,033,679	1,018,457	1,015,222	306,172	123,573
Chittoor	5,855	1,914,639	978,453	936,186	308,968	91,912
Cuddapah	5,924	1,342,015	685,597	656,418	230,571	61,383
Anantapur	7,385	1,767,464	908,254	859,210	287,676	76,580
Kurnool	9,277	1,908,740	964,554	944,186	317,719	90,879
Mahbubnagar	7,119	1,590,686	794,041	796,645	170,774	43,298
Hyderabad	2,988	2,062,995	1,056,578	1,006,417	484,760	238,240
Medak	3,711	1,227,361	614,852	612,509	143,342	29,042
Nizamabad	3,105	1,022,013	509,183	512,830	116,998	29,403
Adilabad	6,306	1,009,292	509,550	499,742	95,571	22,716
Karimnagar	4,582	1,621,515	812,491	809,024	171,958	37,140
Warangal	4,988	1,545,435	790,739	754,696	187,535	50,009
Khammam	6,147	1,057,542	539,994	517,548	118,995	42,079
Nalgonda	5,483	1,574,946	807,623	767,323	177,715	44,525
<i>Assam</i>	47,091	11,872,772	6,328,129	5,544,643	2,361,724	886,331
Goalpara	4,007	1,543,892	812,723	731,169	246,495	78,677
Kamrup	3,804	2,062,572	1,109,608	952,964	435,171	129,136
Darrang	3,369	1,289,670	694,927	594,743	220,195	75,268
Lakhimpur	4,926	1,563,842	853,879	709,963	331,860	116,322
Nowgong	2,167	1,210,761	645,690	565,071	235,128	94,897

* Figures are not available.

† Composite States.

@ Before reorganisation in Nov. 1966.

Area, Population and Literacy of States and Districts in each State—Contd.

States/Districts	Area in sq. miles	Total Population			Literacy	
		Total	Males	Females	Males	Females
<i>Assam—Continued.</i>						
Sibsagar	3,453	1,508,390	808,935	699,455	364,315	153,307
Cachar	2,688	1,378,476	722,487	655,989	290,629	103,679
Garo Hills	3,119	307,228	156,740	150,488	40,554	20,780
United Khasi and Jaintia Hills	5,546	462,152	240,548	221,604	87,835	57,928
United Mikir and North Cachar Hills	5,878	279,726	150,127	129,599	38,799	9,983
Mizo Hills	8,134	266,063	132,465	133,598	70,743	46,354
<i>Bihar</i>	67,196	46,455,610	23,301,449	23,154,161	6,950,967	1,596,878
Patna	2,164	2,949,746	1,522,687	1,427,059	662,562	185,020
Gaya	4,766	3,647,892	1,814,674	1,843,218	571,583	127,646
Shahabad	4,408	3,218,017	1,616,732	1,601,285	583,017	117,748
Saran	2,669	3,584,918	1,677,779	1,907,139	544,737	109,342
Champaran	3,553	3,006,211	1,519,803	1,486,408	327,653	68,077
Muzaffarpur	3,018	4,118,398	2,011,539	2,106,859	569,657	137,399
Darbhanga	3,345	4,413,027	2,142,880	2,270,147	607,878	131,583
Monghyr	3,975	3,387,082	1,702,709	1,684,373	517,993	125,036
Bhagalpur	2,183	1,711,136	877,029	834,107	272,677	74,843
Saharsa	2,093	1,723,566	886,440	837,126	206,935	34,475
Purnea	4,259	3,089,128	1,607,276	1,481,852	410,158	87,987
Santal Parganas	5,470	2,675,203	1,351,149	1,324,054	325,175	66,032
Palamau	4,925	1,187,789	598,600	589,189	136,976	24,251
Hazaribagh	7,016	2,396,411	1,203,503	1,192,908	293,149	53,658
Ranchi	7,047	2,138,565	1,076,251	1,062,314	313,973	95,271
Dhanbad	1,114	1,158,610	646,597	512,013	240,563	54,713
Singhbhum	5,191	2,049,911	1,045,801	1,004,110	366,281	103,797
<i>Gujarat</i>	72,245	20,633,350	10,633,902	9,999,448	4,373,373	1,909,883
Jamnagar	3,944	828,419	424,300	404,119	154,352	65,017
Rajkot	4,588	1,208,519	615,661	592,858	261,966	121,613
Surendranagar	4,006	663,206	341,301	321,905	115,448	47,178
Bhavnagar	4,652	1,119,435	577,729	541,706	221,457	85,585
Amreli	1,545	667,823	340,623	327,200	132,136	60,940
Junagadh	4,186	1,245,643	638,296	607,347	226,187	77,939
Kutch	17,060	696,440	341,224	355,216	114,056	60,032
Banaskantha	4,037	996,144	511,951	484,193	104,695	22,092
Sabarkantha	2,843	918,587	470,224	448,363	170,226	50,497
Mehsana	4,324	1,689,963	858,056	831,907	391,088	182,777
Ahmedabad	3,461	2,210,199	1,188,269	1,021,930	626,280	299,365
Kaira	2,621	1,977,540	1,039,720	937,820	503,735	213,268
Panch Mahals	3,486	1,468,946	758,561	710,385	220,022	62,511
Baroda	2,961	1,527,326	801,026	726,300	367,596	170,184
Broach	2,986	891,969	458,125	433,844	212,535	93,021
Surat†	4,856	2,451,624	1,231,418	1,220,206	546,259	295,972
Dangs	689	71,567	37,418	34,149	5,335	1,292
<i>Jammu & Kashmir*</i> ..	86,023	3,560,976	1,896,633	1,664,343	3,21,827	70,934
Anantnag	—	654,368	351,932	302,436	48,166	4,422
Srinagar	—	640,411	346,434	293,977	71,852	21,540
Baramulla	—	604,659	324,672	279,987	43,541	4,457
Ladakh	—	88,651	44,972	43,679	6,911	458
Doda	—	268,403	141,133	127,270	20,568	2,423
Udhampur	—	254,061	132,936	121,125	18,400	4,270
Jammu	—	516,932	274,107	242,825	70,457	25,674
Kathua	—	207,430	108,899	98,531	19,432	4,458
Poonch-Rajouri	—	326,061	171,548	154,513	22,500	3,232
<i>Kerala</i>	15,002	16,903,715	8,361,927	8,541,788	4,596,205	3,322,955
Cannanore	2,744	1,780,294	874,667	905,627	454,489	280,540
Kozhikode	2,042	2,617,189	1,300,974	1,316,215	665,386	397,909
Palghat	1,982	1,776,566	851,746	924,820	358,850	246,128

* The area of the districts is not available.

† Now split into two districts Surat and Bulsar.

Area, Population and Literacy of States and Districts in each State—*Contd.*

States/Districts	Area in sq. miles	Total Population			Literacy		
		Total	Males	Females	Males	Females	
<i>Kerala—(Contd.)</i>							
Trichur	1,149	1,639,862	784,736	855,126	433,028	361,754	
Ernakulam	1,270	1,859,913	931,248	928,665	538,075	402,151	
Kottayam	2,326	1,732,880	882,580	850,300	550,809	429,464	
Alleppey	698	1,811,252	893,435	917,817	568,953	459,977	
Quilon	1,944	1,941,228	972,657	968,571	562,044	418,416	
Trivandrum	847	1,744,531	869,884	874,467	463,631	326,607	
<i>Madhya Pradesh</i>	171,217	32,372,408	16,578,204	15,794,204	4,481,454	1,063,408	
Morena	4,489	783,348	426,061	357,287	101,069	15,457	
Bhind	1,723	641,169	346,797	294,372	96,505	15,112	
Gwalior	2,002	657,876	353,813	304,063	137,989	45,347	
Datia	782	200,467	105,640	94,827	25,786	4,050	
Shivpur	3,986	557,954	295,543	262,411	56,245	8,277	
Guna	4,271	595,825	313,814	282,011	69,130	13,115	
Tikamgarh	1,944	455,662	239,035	216,627	38,037	6,030	
Chhatarpur	3,381	587,373	310,653	276,720	56,271	9,661	
Panna	2,716	331,257	170,942	160,315	30,966	5,068	
Satna	2,823	694,370	353,430	340,940	92,945	15,292	
Rewa	2,509	772,602	388,887	383,715	101,130	13,868	
Shahdol	5,412	829,649	424,042	405,607	41,802	11,560	
Sidhi	4,060	580,129	293,507	286,622	139,307	3,290	
Mandsaur	3,966	752,085	390,731	361,354	79,351	29,489	
Ratlam	1,727	483,521	249,047	234,474	119,818	24,080	
Ujjain	2,360	661,720	344,515	317,205	23,806	35,282	
Jhabua	2,615	514,384	262,695	251,689	70,232	7,310	
Dhar	3,150	643,774	328,177	315,597	202,455	16,375	
Indore	1,479	753,594	400,470	353,124	65,100	85,660	
Dewas	2,706	446,901	230,761	216,140	123,837	12,304	
West Nimar	5,206	990,464	505,919	484,545	129,330	27,965	
East Nimar	4,132	685,150	353,378	331,772	63,191	38,709	
Shajapur	2,388	526,135	270,777	255,358	44,117	11,134	
Rajgarh	2,383	516,871	269,666	247,205	54,877	7,499	
Vidisha	2,839	489,213	258,840	230,373	122,545	11,225	
Sehore	3,600	754,684	404,785	349,899	46,133	39,538	
Raisen	3,272	411,426	215,709	195,717	111,395	8,834	
Hoshangabad	3,867	618,293	319,760	298,352	75,778	30,199	
Betul	3,884	560,412	281,055	279,357	125,628	16,950	
Sagar	3,961	796,547	414,834	381,713	64,545	36,789	
Damoh	2,827	438,343	223,067	215,276	271,714	16,329	
Jabalpur	3,918	1,273,825	862,045	611,780		91,942	
Narsimhapur	1,979	412,406	211,238	201,168	68,749	20,115	
Mandla	5,127	684,503	341,294	343,209	79,923	17,190	
Chhindwara	4,565	785,535	396,672	388,863	102,909	25,110	
Seoni	3,376	523,741	261,060	262,681	71,290	18,023	
Balaghat	3,573	806,702	401,447	405,255	137,504	28,985	
Surguja	8,626	1,036,738	530,166	506,572	81,590	13,276	
Bilaspur	7,615	2,021,793	998,738	1,023,055	304,740	63,788	
Raigarh	5,064	1,041,226	517,958	523,268	128,831	25,827	
Durg	7,576	1,885,236	946,154	939,082	277,618	58,861	
Raipur	8,214	2,002,004	982,679	1,019,325	304,433	65,821	
Bastar	15,124	1,167,501	582,403	585,098	68,066	12,582	
<i>Maharashtra</i>	118,717	39,533,718	20,428,882	19,214,836	8,588,657	3,204,413	
Greater Bombay	186	4,152,056	2,496,176	1,665,880	1,624,958	808,246	
Thana	3,658	1,652,678	861,117	791,561	353,853	150,852	
Kolaba	2,716	1,058,855	514,534	544,321	187,138	72,943	
Ratnagiri	5,025	1,827,203	816,804	1,010,399	344,332	176,206	
Nasik	6,020	1,855,246	953,531	901,715	375,266	123,640	
Dhulia	5,022	1,351,236	686,942	664,294	257,120	82,673	
Jalgaon	4,573	1,765,047	902,001	863,046	444,864	155,480	
Ahmednagar	6,586	1,775,969	905,313	870,656	356,299	113,430	
Poona	6,033	2,466,880	1,268,710	1,198,170	585,911	260,489	

Area, Population and Literacy of States and Districts in each State—(Contd.).

States/Districts	Area in sq. miles	Total Population			Literacy	
		Total	Males	Females	Males	Females
<i>Maharashtra—(Contd.).</i>						
Satara	4,041	1,430,105	698,555	731,550	331,164	154,765
Sangli	3,299	1,230,716	628,754	601,962	263,344	82,135
Sholapur	5,809	1,860,119	960,655	899,464	354,396	113,363
Kolhapur	3,141	1,596,493	811,693	784,800	325,408	94,488
Aurangabad	6,314	1,532,341	781,635	750,706	223,930	50,045
Parbhani	4,584	1,206,236	611,787	494,449	154,618	30,830
Bhir	4,268	1,001,466	508,827	492,693	125,170	25,969
Nanded	4,800	1,079,674	547,974	531,700	136,052	27,488
Osmanabad	5,504	1,477,656	758,235	719,421	208,685	43,329
Buldhana	3,751	1,059,698	541,026	518,672	222,652	63,398
Akola	4,095	1,189,354	613,832	575,522	275,046	96,037
Amravati	4,723	1,232,780	637,861	494,919	292,861	122,377
Yeotmal	5,246	1,098,470	557,010	541,460	196,839	61,043
Wardha	2,429	634,277	322,894	311,383	140,253	52,861
Nagpur	3,842	1,512,807	784,161	728,646	376,843	154,900
Bhandara	3,582	1,268,286	635,174	633,112	253,422	51,864
Chanda	9,200	1,238,070	623,681	614,389	178,233	35,602
<i>Mysore</i>						
74,210	23,586,772	12,040,923	11,545,849	4,352,428	1,638,157	
Bangalore	3,081	2,504,462	1,306,230	1,198,232	581,331	278,670
Tumkur	4,096	1,367,402	699,191	668,221	237,598	71,994
Chitradurga	4,185	1,094,284	563,988	530,296	207,791	66,787
Kolar	3,188	1,290,144	655,645	634,499	202,808	71,900
Bellary	3,825	915,261	466,923	448,338	150,165	41,223
Mysore	4,617	1,671,399	856,921	814,478	252,792	103,208
South Kanara	3,249	1,563,837	751,229	812,608	310,890	194,957
Coorg	1,587	322,829	173,338	149,491	75,378	41,696
Hassan	2,638	895,847	455,055	440,792	161,685	56,350
Shimoga	4,066	1,017,368	536,103	481,265	205,489	79,886
Chikmagalur	2,787	597,305	313,795	283,510	118,081	46,356
Mandya	1,924	899,210	457,143	442,067	120,912	34,739
Belgaum	5,163	1,983,811	1,016,564	967,247	385,260	131,077
Bijapur	6,594	1,660,178	840,180	819,998	319,622	86,270
North Kanara	3,965	689,549	354,344	335,205	153,744	76,839
Dharwar	5,303	1,950,362	999,904	950,558	474,197	176,306
Gulbarga	6,332	1,399,457	703,447	696,010	169,902	36,189
Bidar	2,119	663,172	336,480	326,692	80,826	15,252
Raichur	5,491	1,100,895	554,543	546,352	143,957	28,458
<i>Orissa</i>						
60,164	17,548,846	8,770,586	8,778,260	3,042,004	759,241	
Kalahandi	5,099	1,009,654	499,646	510,008	97,784	13,838
Koraput	9,864	1,498,271	753,398	744,873	102,325	22,115
Sambalpur	6,763	1,508,686	756,163	752,523	281,153	64,819
Bolangir	3,439	1,068,686	534,219	534,467	133,255	22,651
Baudh-Khondmals	4,284	514,427	255,685	258,742	79,990	11,025
Gunjam	4,824	1,872,530	899,329	973,201	319,165	80,048
Sundargarh	3,751	758,617	396,214	362,403	120,487	29,059
Dhenkanal	4,177	1,028,935	516,843	512,092	200,909	40,423
Puri	3,999	1,865,439	930,663	934,776	426,113	124,071
Keonjhar	3,206	743,315	375,090	368,225	109,699	21,559
Cuttack	4,236	3,060,320	1,531,244	1,529,080	699,090	213,461
Mayurbhanj	4,022	1,204,043	604,756	599,287	143,545	27,134
Balasore	2,500	1,415,923	717,340	698,583	328,489	89,038
<i>Punjab†</i>						
47,205	20,306,812	10,891,576	9,415,236	3,591,177	1,326,219	
Hissar@	5,380	1,540,508	827,658	712,850	215,103	52,878
Rohtak@	2,330	1,420,391	751,225	669,166	243,192	59,751
Gurgaon@	2,367	1,240,706	659,432	581,274	205,510	48,685
Karnal@	3,062	490,430	804,769	685,661	206,871	66,127
Ambala@	2,134	1,373,477	758,127	515,350	291,984	120,129
Simla*	254	112,653	65,078	47,575	35,933	13,205
Kangra*	4,904	1,062,518	534,816	527,702	189,766	59,644
Lahaul & Spiti*	4,714	20,453	11,519	8,934	3,247	332

* Now in Himachal Pradesh.

† Composite State.

@ Now in Haryana State.

Area, Population and Literacy of States and Districts in each State—(Contd.).

States/Districts	Area in sq. miles	Total Population			Literacy	
		Total	Males	Females	Males	Females
<i>Punjab—Continued.</i>						
Hoshiarpur	2,210	1,233,493	649,343	584,150	256,060	99,623
Jullundur	1,335	1,227,367	655,493	571,874	277,066	135,944
Ludhiana	1,324	1,022,519	551,304	471,215	242,238	129,012
Ferozepur	3,882	1,619,116	876,373	742,743	266,501	98,687
Amritsar	1,978	1,534,916	827,821	707,095	304,729	151,413
Gurdaspur	1,360	987,994	530,107	457,887	178,186	71,358
Kapurthala	630	343,778	182,299	161,479	68,475	32,447
Bhatinda	2,706	1,055,177	574,549	480,628	153,964	45,698
Sangrur	3,031	1,424,688	774,470	650,218	181,252	53,623
Patiala	2,261	1,048,778	573,243	475,535	184,488	75,731
Mahendragarh@	1,343	547,850	283,950	263,900	86,702	11,932
<i>Rajasthan</i>	<i>132,152</i>	<i>20,155,602</i>	<i>10,564,082</i>	<i>9,591,520</i>	<i>2,504,983</i>	<i>560,585</i>
Ganganagar	8,000	1,037,423	563,231	474,192	143,039	31,502
Bikaner	10,561	444,515	232,699	211,816	67,461	26,427
Churu	6,410	659,011	340,048	318,963	93,426	26,150
Jhunjhunu	2,283	719,650	370,457	349,193	115,418	19,257
Alwar	3,241	1,090,026	576,234	513,792	141,228	25,015
Bharatpur	3,127	1,149,883	624,090	525,793	151,745	23,172
Sawai Madhopur	4,070	943,574	504,351	439,043	106,203	13,396
Jaipur	5,393	1,901,756	1,006,134	895,622	276,527	74,751
Sikar	3,027	820,286	417,763	402,523	109,860	18,996
Ajmer	3,283	976,547	510,446	466,101	183,692	63,405
Tonk	2,765	497,729	260,589	237,140	47,449	9,173
Jaisalmer	14,847	140,338	77,871	62,467	10,156	1,227
Jodhpur	8,772	885,663	469,147	416,516	126,432	38,014
Nagaur	6,884	934,948	480,586	654,362	101,602	22,343
Pali	4,792	805,682	414,615	391,067	90,718	19,232
Barmer	10,170	649,794	347,811	301,983	43,571	4,905
Jalore	4,916	547,072	285,081	261,991	38,683	4,815
Sirohi	1,979	352,303	180,853	171,450	38,419	10,654
Bilwara	4,034	865,797	454,235	411,544	82,734	14,623
Udaipur	6,812	1,464,276	755,351	708,925	162,302	36,778
Chittorgarh	4,033	710,132	367,012	343,120	76,642	13,062
Dungarpur	1,460	406,944	204,342	202,602	35,363	7,110
Banswara	1,946	475,245	241,102	234,143	33,810	7,972
Bundi	2,148	338,010	178,193	159,817	33,793	6,261
Kota	4,794	848,389	447,181	401,208	103,285	31,349
Jhalawar	2,405	490,609	254,462	236,147	55,605	10,996
<i>Tamil Nadu</i>	<i>50,331</i>	<i>33,686,953</i>	<i>16,910,978</i>	<i>16,775,975</i>	<i>7,532,323</i>	<i>3,048,293</i>
Madras Corporation	49	1,729,141	909,701	819,440	633,203	395,123
Chingleput	3,031	2,196,412	1,201,951	1,075,821	450,538	162,001
North Arcot	4,942	3,146,326	1,581,826	1,564,500	587,133	190,696
South Arcot	4,204	3,047,973	1,535,928	1,512,045	622,886	191,293
Salem	7,028	3,804,108	1,923,885	1,880,223	568,613	187,906
Coimbatore	6,018	3,557,471	1,809,591	1,747,880	783,113	291,116
Nilgiris	984	409,308	213,833	195,475	103,211	42,843
Madurai	4,910	3,211,227	1,607,229	1,603,998	773,408	298,467
Tiruchirapalli	5,514	3,190,078	1,588,249	1,601,649	709,822	245,105
Tanjavur	3,740	3,245,927	1,610,241	1,635,686	783,783	305,072
Ramanathapuram	4,849	2,421,788	1,175,769	1,246,019	568,347	209,212
Tirunneveli	4,419	2,730,279	1,330,220	1,400,059	664,923	328,396
Kanya Kumari	643	996,915	503,735	180,493	283,294	200,883
<i>Uttar Pradesh</i>	<i>113,654</i>	<i>73,746,401</i>	<i>38,634,201</i>	<i>35,112,200</i>	<i>10,546,795</i>	<i>2,466,388</i>
Uttar Kashi	3,018	122,836	62,534	60,302	17,962	1,179
Chamoli	3,525	253,137	120,092	133,045	49,766	5,410
Pithoragarh	2,788	263,579	128,292	135,287	53,605	7,943
Tehri Garhwal	1,745	347,736	157,909	189,827	51,817	3,797
Garhwal	2,106	482,327	222,892	259,435	96,681	15,866
Almora	2,713	633,407	304,459	328,948	117,085	18,332
Naini Tal	2,635	574,320	334,197	240,123	122,706	34,487

@ Now in Haryana State.

Area, Population and Literacy of States and Districts in each State—(Contd.).

States/Districts	Area in sq. miles	Total Population			Literacy	
		Total	Males	Females	Males	Females
Uttar Pradesh—Continued.						
Bijnor	1,866	1,190,987	634,468	556,519	165,788	44,675
Moradabad	2,289	1,973,530	1,058,394	915,136	209,246	61,233
Budaun	1,998	1,411,657	768,583	643,074	109,250	26,768
Rampur	895	701,537	374,945	326,592	67,206	17,491
Bareilly	1,591	1,478,490	806,220	672,270	170,139	53,968
Pilibhit	1,352	616,225	334,599	281,626	66,783	15,815
Shahjahanpur	1,762	1,130,256	618,900	511,356	119,859	29,815
Dehra Dun	1,201	429,014	242,987	186,027	116,289	49,942
Saharanpur	2,132	1,615,478	885,109	730,369	249,127	74,620
Muzaffarnagar	1,683	1,444,921	785,031	659,890	195,116	45,835
Meerut	2,322	2,712,960	1,472,006	1,240,954	484,629	124,089
Bulandshahr	1,887	1,737,397	924,150	813,247	255,721	46,704
Aligarh	1,941	1,765,275	948,568	816,707	282,958	66,714
Mathura	1,467	1,071,279	582,894	488,385	191,420	38,604
Agra	1,861	1,862,142	1,012,056	850,086	345,040	102,219
Etah	1,715	1,299,674	696,924	602,750	175,392	39,945
Mainpuri	1,680	1,180,894	634,951	545,943	187,827	45,328
Farrukhabad	1,645	1,295,071	704,387	590,684	215,474	61,548
Etawah	1,669	1,182,202	639,974	542,228	216,706	54,438
Kanpur	2,357	2,381,353	1,314,673	1,066,680	546,643	203,132
Fatehpur	1,625	1,072,940	560,474	512,466	151,949	26,917
Allahabad	2,801	2,438,376	1,263,981	1,174,395	384,877	92,013
Jhansi	3,885	1,087,479	573,703	513,776	174,933	42,649
Jalaun	1,764	663,168	351,704	311,464	125,138	26,010
Hamirpur	2,775	794,449	419,217	381,532	109,836	19,149
Banda	2,950	953,731	500,573	453,158	126,276	15,472
Kheri	2,972	1,258,433	679,011	579,422	127,465	23,572
Sitapur	2,236	1,608,057	865,242	742,815	181,201	31,803
Hardoi	2,320	1,573,171	847,161	726,010	201,432	41,324
Unnao	1,774	1,226,923	648,560	578,363	152,542	33,185
Lucknow	977	1,338,882	728,214	610,668	284,900	119,394
Rae Bareili	1,758	1,314,949	669,113	645,836	148,890	24,487
Bahraich	2,620	1,499,929	790,492	709,437	156,761	19,284
Gonda	2,829	2,073,237	1,072,818	1,000,419	210,920	32,548
Bara Banki	1,714	1,414,547	746,738	667,809	146,120	24,162
Faizabad	1,705	1,633,359	824,004	809,355	194,652	39,076
Sultanpur	1,713	1,412,984	700,661	712,323	158,932	24,111
Pratapgarh	1,458	1,252,196	607,165	645,031	150,777	20,404
Basti	2,821	2,627,061	1,348,124	1,287,937	266,768	39,977
Gorakhpur	2,439	2,565,182	1,297,297	1,267,885	339,162	64,203
Deoria	2,087	2,375,075	1,186,527	1,188,548	289,389	46,000
Azamgarh	2,222	2,408,052	1,185,008	1,223,044	313,253	78,739
Jaunpur	1,543	1,727,264	838,028	889,236	250,725	46,558
Ballia	1,183	1,335,863	656,347	679,516	205,591	53,165
Ghazipur	1,306	1,321,578	654,246	667,332	189,255	48,300
Varanasi	1,965	2,362,179	1,211,588	1,150,591	446,281	110,859
Mirzapur	4,369	1,249,653	644,311	605,342	178,535	33,121
West Bengal	33,829	34,926,279	18,599,144	16,327,135	7,454,006	2,771,658
Darjeeling	1,160	624,640	335,036	289,604	134,516	44,776
Jalpaiguri	2,407	1,359,292	733,339	625,953	198,519	62,682
Cooch-Bihar	1,289	1,019,806	539,694	408,112	169,684	44,486
West Dinajpur	2,052	1,323,797	694,372	629,425	180,238	45,589
Malda	1,436	1,221,923	621,990	599,933	133,533	35,010
Murshidabad	2,056	2,290,010	1,160,283	1,129,727	272,605	94,396
Nadia	1,514	1,713,324	879,430	833,894	314,703	152,093
24-Parganas	5,285	6,280,915	3,366,805	2,914,110	1,476,757	563,240
Calcutta	40	2,927,289	1,815,791	1,111,498	1,154,018	581,443
Howrah	575	2,038,477	1,127,392	911,085	545,811	206,517
Hooghly	1,216	2,231,418	1,179,267	1,052,151	543,809	229,483
Burdwan	2,716	3,082,846	1,658,976	1,423,870	653,474	258,361
Birbhum	1,757	1,446,158	732,922	713,236	237,655	81,792
Bankura	2,653	1,664,513	840,423	824,090	304,019	80,172

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Area, Population and Literacy of States and Districts in each State—(Concl'd).

States/Districts	Area in sq. miles	Total Population			Literacy	
		Total	Males	Females	Males	Females
<i>West Bengal—(Contd.)</i>						
Midnapur	5,258	4,341,855	2,240,073	2,117,782	926,489	257,815
Purulia	2,415	1,360,016	689,351	670,665	208,176	33,803
<i>Union Territories and other areas :</i>						
Andaman & Nicobar Islands	3,215	63,548	39,304	24,244	16,675	4,697
Delhi	573	2,658,612	1,489,378	1,169,234	904,801	497,497
Himachal Pradesh ..	10,885	1,351,144	702,697	648,447	191,139	40,525
1. Chamba	3,131	210,579	110,700	99,879	19,482	4,066
2. Mandi	1,523	384,259	192,687	191,572	57,600	13,017
3. Bilaspur	448	158,806	81,363	77,443	25,798	5,101
4. Mahasu	2,171	358,969	189,046	169,923	57,540	11,882
5. Sirmur	1,095	197,551	108,093	89,458	25,216	5,672
6. Kinnaur	2,517	40,980	20,808	20,172	5,503	787
Laccadive, Minicoy and Amindivi Islands ..	11	24,108	11,935	12,173	4,273	1,337
Manipur	8,628	780,037	387,058	392,979	174,656	62,620
Tripura	4,036	1,142,005	591,237	550,768	175,060	56,128
Dadra and Nagar Haveli..	189	57,963	29,524	28,439	4,342	1,153
Goa, Daman & Diu ..	1,426	626,978	302,953	324,025	..	..
N.E.F.A.	31,438	336,558	177,680	158,878	21,879	2,381
Nagaland	6,366	369,200	191,027	168,173	45,917	20,200
1. Kohima	2,374	108,924	57,704	51,220	17,239	5,538
2. Mokokchung	1,924	126,001	64,366	61,635	23,870	13,462
3. Tuensang	2,068	134,275	68,957	65,318	4,808	1,200
Pondicherry	185	369,079	183,347	185,732	92,384	45,765

WORKING CLASS—SCH. CASTES & SCH. TRIBES

Statewise population of Scheduled Castes & Scheduled Tribes Workers (male and female) respectively is :—

Sch. Castes : Andhra Pradesh 2,512,325 ; 2,461,291 ; Assam 389,271 ; 343,485 ; Bihar 3,218,935 ; 3,317,940 ; Gujarat 693,436 ; 673,819 ; Jammu & Kashmir 134,765 ; 133,756 ; Kerala 705,709 ; 716,348 ; Madhya Pradesh 2,155,875 ; 2,097,875 ; Tamil Nadu 3,047,613 ; 3,024,923 ; Maharashtra 1,135,191 ; 1,091,723 ; Mysore 1,586,547 ; 1,530,685 ; Orissa 1,371,410 ; 1,392,448 ; Punjab 2,208,473 ; 1,930,633 ; Rajasthan 1,747,476 ; 1,612,164 ; Uttar Pradesh 7,944,364 ; 7,472,881 ; West Bengal 3,629,182 ; 3,321,544.

Andaman & Nicobar Islands (Nil) ; Delhi 189,470 ; 152,085 ; Himachal Pradesh 191,429 ; 178,487 ; L. M. and A. Islands (Nil) ; Manipur 6,886 ; 6,490 ; Tripura 62,069 ; 57,656 ; Dadra and Nagar Haveli 498 ; 686 ; Goa, Daman & Diu (Nil) ; NEFA (Nil) ; Nagaland 80 ; 46 ; Pondicherry 28,804 ; 28,057. Total 32,963,789 ; 31,547,534.

Scheduled Tribes : Andhra Pradesh 670,368 ; 654,000 ; Assam 1,057,076 ; 1,011,288 ; Bihar 2,087,994 ; 2,116,776 ; Gujarat 1,398,478 ; 1,355,968 ; Jammu & Kashmir (Nil) ; Kerala 103,995 ; 104,001 ; Madhya Pradesh 3,334,363 ; 3,344,047 ; Tamil Nadu 129,578 ; 123,068 ; Maharashtra 1,211,605 ; 1,185,554 ; Mysore 98,337 ; 93,759 ; Orissa 2,094,753 ; 2,129,004 ; Punjab 6,964 ; 7,168 ; Rajasthan 1,198,886 ; 1,110,561 ; Uttar Pradesh (Nil) ; West Bengal 1,047,287 ; 1,016,596.

Andaman & Nicobar Islands 7,318 ; 6,804 ; Delhi (Nil) ; Himachal Pradesh 54,719 ; 53,475 ; L. M. & A. Islands 11,466 ; 11,925 ; Manipur 123,162 ; 125,887 ; Tripura 184,174 ; 175,896 ; Dadra & Nagar Haveli 26,002 ; 25,259 ; Goa, Daman & Diu (Nil) ; NEFA (Nil) ; Nagaland 171,233 ; 172,464 ; Pondicherry (Nil).

LANGUAGE

Population speaking National languages :—Hindi 13,34,35,360 ; Telugu 3,76,68,132 ; Bengali 3,38,88,939 ; Marathi 3,32,86,771 ; Tamil 3,05,62,706 ; Urdu 2,33,23,518 ; Gujarati 2,03,04,464 ; Kannada 1,74,15,827 ; Malayalam 1,70,15,782 ; Oriya 1,57,19,398 ; Punjabi 1,09,50,826 ; Assamese 68,03,465 ; Kashmiri 19,56,115 & Sanskrit 2,544.

Population speaking other Indian languages : Bihari 1,68,06,772 ; Rajasthani 1,49,33,016 ; Santali 32,47,058 ; Bhili 24,39,611 ; Gondi 15,01,431 ; Sindhi 13,71,932 ; Konkani 13,52,363 ; Kurukh/Oraon 11,41,804 ; Kumauni 10,30,254 ; Nepali 10,21,102 ; Pahari 10,15,203 ; Tulu 9,35,108 ; Garhwali 8,09,967 ; Mundari 7,37,037 ; Ho 6,46,359 ; Manipuri 6,36,430 ; Kui 5,12,161 ; Khandesh 4,28,126 ; Khasi 3,64,063 ; Bodo Boro 3,61,801 ; Garo 3,07,040 ; Tripuri 2,90,643 ; Savara 2,65,721 ; Mund 2,61,653 ; Mandeali 2,27,352 ; Lushai/Mizo 2,22,262 ; Korker 2,20,242 ; Kharia 1,77,159 ; Khond/Kondh 1,68,027 ; Mikir 1,54,893 ; Bhumiji 1,42,003 ; Koya 1,40,777 ; Miri 1,36,598 ; Hindustani 1,23,200 ; Sironauri 1,11,391 & Parji 1,09,401.

1961 Census

Speakers of Languages specified in schedule VIII of the Constitution of India

India/States	Assamese	Bengali	Gujarati	Hindi	Kannada	Kashmiri
India	6,803,465	33,888,939	20,304,464	133,435,360	17,415,827	1,956,115
Andhra Pradesh	122	3,346	24,743	138,968	382,142	104
Assam	6,784,271	2,089,248	712	523,791	206	41
Bihar	224	1,220,800	20,068	20,580,643	674	186
Gujarat	37	3,393	18,672,722	192,407	5,222	122
Jammu & Kashmir	5	400	79	22,328	15	1,937,817
Kerala	14	670	6,989	7,327	62,187	17
Madhya Pradesh	595	52,813	129,389	25,271,723	5,232	552
Maharashtra	272	29,114	1,101,600	1,230,026	633,244	658
Mysore	121	2,583	29,296	81,836	15,371,753	23
Orissa	—	125,687	9,436	219,525	584	2
Punjab*	1,196	4,811	1,863	11,298,855	604	8,124
Rajasthan	71	8,807	41,833	6,714,857	371	317
Tamil Nadu	70	2,498	173,702	38,989	947,828	89
Uttar Pradesh	303	104,528	12,832	62,974,736	1,527	1,316
West Bengal	8,279	29,435,928	25,709	1,897,825	697	99
Union Territories & other areas	7,885	804,313	53,491	2,241,524	3,541	6,648
Andaman & Nicobar Islands	12	13,853	105	3,573	71	10
Delhi	212	28,136	6,626	2,057,241	2,001	3,043
Himachal Pradesh†	21	216	23	143,570	7	3,502
Laccadive, Minicoy & Amindivi Islands	—	—	1	2	6	—
Manipur	300	10,011	2	2,379	4	11
Tripura	123	744,803	40	18,607	5	3
Dadra & Nagar Haveli	—	—	11,327	352	7	—
Goa, Daman & Diu	—	41	34,888	1,663	947	—
Pondicherry	6	512	458	461	436	1
N.E.F.A.	3,640	2,261	9	7,037	52	76
Nagaland	3,566	3,820	9	4,486	4	1
Sikkim	5	660	3	2,153	1	1

* Composite State.

† Before reorganisation in Nov. 1966.

1961 Census

Speakers of Languages specified in Schedule VIII of the Constitution of India—(Contd.)

India/States	Malayalam	Marathi	Oriya	Punjabi	Sanskrit	Tamil	Telugu	Urdu
India	17,015,782	33,286,771	15,719,398	10,950,826	2,544	30,562,706	37,668,132	23,323,518
Andhra Pradesh	23,350	286,737	201,621	10,868	25	511,595	30,934,898	2,553,753
Assam	2,204	5,497	146,022	11,779	—	4,501	19,786	1,263
Bihar	7,559	5,074	302,969	72,191	129	16,177	37,222	4,149,245
Gujarat	7,785	208,192	379	14,791	99	13,264	10,602	594,670
Jammu & Kashmir	156	226	26	978,393	3	349	172	12,617
Kerala	16,065,740	18,570	59	1,157	7	527,708	44,838	9,162
Madhya Pradesh	19,924	1,259,682	389,463	111,955	384	28,141	58,426	740,185
Maharashtra	90,460	30,278,913	3,624	104,224	82	167,694	640,795	2,752,737
Mysore	305,512	1,072,419	1,172	5,390	125	859,173	2,047,379	2,034,482
Orissa	4,832	2,970	14,443,598	6,966	—	6,918	393,458	212,891
Punjab*	6,390	4,853	533	8,343,264	124	6,789	2,410	255,660
Rajasthan	2,213	9,183	1,408	403,975	31	3,443	1,181	509,673
Tamil Nadu	404,346	52,363	399	3,507	117	28,016,147	3,363,834	615,503
Uttar Pradesh	7,715	14,559	1,360	418,853	1,332	12,399	4,530	7,891,714
West Bengal	8,602	13,280	213,831	57,656	4	32,663	80,930	832,847
Union Territories & Other Areas	58,994	54,253	12,934	405,857	82	355,745	27,676	174,116
Andaman & Nicobar Islands	6,673	56	129	359	—	5,769	3,758	1,897
Delhi	9,495	7,578	734	317,333	64	22,963	5,230	153,251
Himachal Pradesh†	122	30	30	85,396	—	48	4	6,271
Laccadive, Minicoy & Amindivi Islands	20,029	5	—	1	—	43	5	1
Manipur	54	6	57	639	—	17	20	36

(Continued on p. 58.)

* Composite State.

† Before reorganisation in Nov. 1966.

WORKING CLASS UNDER DIFFERENT CATEGORIES, 1961.†

States/Territories	Sex	Total workers	Cultivators	Agricultural labourers	In Mining, Quarrying, Livestock, Forestry, Fishing, Hunting & Plantations, Orchards & allied industries	At Household Industry
					4	
		1	2	3	4	5
Andhra Pradesh	M	11,299,400	4,654,264	2,454,741	466,002	1,149,287
	F	7,363,642	2,832,555	2,881,753	94,956	665,867
Assam	M	3,423,454	2,189,874	158,179	291,163	28,293
	F	1,713,957	1,133,626	29,237	226,937	252,060
Bihar	M	12,955,406	6,926,057	2,574,239	541,511	602,958
	F	6,279,156	3,435,914	1,844,236	110,672	454,942
Gujarat	M	5,685,776	2,816,996	679,267	76,290	343,163
	F	2,788,812	1,702,064	572,733	28,560	212,443
Jammu & Kashmir	M	1,096,940	798,444	16,764	18,247	43,040
	F	426,681	354,959	1,653	7,232	52,588
Kerala	M	3,947,038	904,502	516,914	398,622	188,654
	F	1,683,295	273,601	461,482	88,737	299,908
Madhya Pradesh	M	9,981,224	5,932,754	1,397,278	383,803	528,795
	F	6,947,953	4,678,754	1,417,922	108,484	312,600
Maharashtra	M	11,662,264	4,744,781	2,112,617	346,798	560,014
	F	7,286,217	3,992,294	2,397,385	62,593	272,155
Mysore	M	7,029,602	3,750,685	886,072	243,595	451,206
	F	3,696,744	2,055,979	875,038	92,481	257,504
Orissa	M	5,328,366	3,185,128	805,009	95,978	285,734
	F	2,333,163	1,167,884	498,502	36,018	245,075
Punjab‡	M	5,764,363	2,989,353	483,013	60,407	420,558
	F	1,336,783	1,007,378	60,782	5,743	120,291
Rajasthan	M	6,141,506	4,205,067	230,193	122,737	397,504
	F	3,442,334	2,850,012	163,438	48,344	200,678
Tamil Nadu	M	10,103,326	4,230,028	1,445,041	330,606	681,052
	F	5,248,295	2,227,805	1,383,333	104,892	525,760
Uttar Pradesh	M	22,480,360	14,302,062	2,035,588	147,427	1,319,180
	F	6,369,781	4,126,314	1,225,590	24,432	482,566
West Bengal	M	10,040,239	3,891,551	1,446,721	439,010	299,904
	F	1,539,956	567,228	324,987	138,871	187,407
Andaman & Nicobar Islands	M	26,648	5,228	337	6,986	2,047
	F	4,546	1,227	11	307	2,612
Delhi	M	778,282	34,603	5,101	6,918	13,194
	F	76,169	20,855	2,224	1,748	3,516
Himachal Pradesh §	M	443,449	334,266	7,555	8,251	27,686
	F	362,038	336,323	3,777	646	17,163
Laccadive, M. & A. Islands	M	6,158	135	..	579	4,120
	F	6,291	4	..	4	6,185
Manipur	M	183,127	141,182	1,186	574	7,291
	F	174,793	92,996	998	231	71,875
Tripura	M	322,043	199,308	29,307	7,773	7,011
	F	115,186	81,573	3,605	4,420	18,142
Dadra & Nagar Haveli	M	18,317	12,771	2,413	1,477	436
	F	16,477	13,027	2,536	518	172
NEFA	M	24,766	96	10	342	15
	F	1,398	57	..	..	461
Nagaland	M	115,554	91,702	1,214	492	63
	F	103,756	101,781	1,287	25	32
Pondicherry	M	101,095	17,962	21,386	7,299	4,244
	F	37,275	4,092	17,421	379	3,262
Total (1961)	M	129,015,653	66,406,765	17,311,474	4,003,058	7,365,650
	F	59,401,709	33,103,198	14,170,831	1,187,241	4,665,437
Total (1951)	M	99,082,627	51,424,129	14,816,966	2,765,489	..
	F	40,438,553	18,367,873	12,693,671	1,356,751	..

M : Males.
in Nov. 1966.

F : Females.

† Excludes Goa, Daman and Diu.

‡ Composite State.

§ Before reorganisation

WORKING CLASS UNDER DIFFERENT CATEGORIES, 1961 †—(Contd.)

States/Territories	Sex	Manufac- turing other than Household Industry	In construction	In Trade and Commerce	In Transport, Storage and Communi- cations	In other services	Non-workers
		6	7	8	9	10	11
Andhra Pradesh	M	387,729	174,167	590,817	233,813	1,188,580	6,862,271
	F	87,946	46,083	207,330	4,147	543,005	10,458,134
Assam	M	91,326	32,212	174,845	74,637	376,925	2,904,675
	F	12,308	1,626	9,862	975	47,326	3,830,686
Bihar	M	385,396	99,333	448,487	227,763	1,149,665	10,346,040
	F	40,500	9,009	74,462	2,780	306,641	16,875,005
Gujarat	M	500,109	73,492	381,287	155,867	659,305	4,948,126
	F	36,050	16,551	29,869	3,194	187,348	7,210,636
Jammu & Kashmir	M	31,298	8,470	33,065	12,491	135,121	799,693
	F	2,155	264	555	739	6,536	1,237,662
Kerala	M	392,950	67,664	298,218	144,913	1,034,601	4,414,889
	F	136,522	3,038	23,715	7,600	388,692	6,858,493
Madhya Pradesh	M	302,703	141,983	350,141	153,673	790,094	6,596,980
	F	34,142	30,275	53,496	4,247	308,033	8,846,251
Maharashtra	M	1,191,921	197,445	770,659	525,464	1,312,565	8,766,618
	F	112,414	38,171	85,391	21,348	304,466	11,838,619
Mysore	M	359,351	153,479	327,869	105,077	752,268	5,011,321
	F	62,529	36,459	63,151	1,241	252,362	7,849,105
Orissa	M	72,998	29,117	111,622	49,098	693,682	3,445,220
	F	13,199	1,741	35,840	2,618	332,286	6,445,097
Punjab†	M	338,910	135,172	380,663	141,611	814,676	5,127,213
	F	15,148	5,071	4,808	861	116,701	8,078,453
Rajasthan	M	151,184	96,908	274,232	116,975	546,706	4,422,576
	F	20,841	12,254	13,925	934	131,908	6,149,186
Tamil Nadu	M	750,585	175,937	660,894	248,599	1,580,584	6,807,652
	F	97,717	29,390	97,407	5,002	776,989	11,527,680
Uttar Pradesh '	M	771,059	209,914	996,260	396,530	2,302,340	16,153,841
	F	29,776	4,005	66,622	2,735	407,741	28,642,419
West Bengal	M	1,243,617	146,625	836,365	386,873	1,349,573	8,558,905
	F	75,543	4,665	35,839	5,352	200,064	14,787,179
Andaman & Nicobar	M	1,145	5,426	1,065	403	4,011	12,656
Islands	F	59	16	30	..	284	19,698
Delhi	M	163,353	32,605	144,579	48,673	329,256	711,096
	F	6,971	2,755	2,148	896	35,056	1,093,065
Himachal Pradesh §	M	6,105	13,202	7,006	2,889	36,489	259,248
	F	630	508	171	31	2,789	286,409
Laccadive, Minicoy &	M	343	224	109	147	501	5,777
Amindivi Islands	F	31	10	3	2	52	5,882
Manipur	M	848	2,003	5,328	3,014	21,701	203,931
	F	258	233	6,561	19	1,622	218,186
Tripura	M	9,039	3,998	17,957	4,770	42,880	269,194
	F	1,800	102	564	9	4,971	445,582
Dadra & Nagar Haveli	M	83	229	198	111	599	11,207
	F	2	79	28	..	115	11,962
NEFA	M	..	1,712	407	869	21,315	5,814
	F	17	1	..	..	862	6,727
Nagaland	M	597	373	1,173	721	19,219	75,473
	F	22	2	64	3	540	74,417
Pondicherry	M	15,300	3,463	10,127	3,264	18,050	82,252
	F	2,017	196	3,225	15	6,668	148,457
Total (1961)	M	7,168,015	1,812,830	6,824,799	2,938,441	15,184,621	96,827,914
	F	788,599	242,619	815,246	64,749	4,363,789	153,064,975
Total (1951)	M	9,747,997*	1,176,649	6,157,202	2,013,778	10,980,417	84,247,911
	F	2,806,449*	291,307	1,152,547	122,668	3,647,287	133,110,303

* Includes household industries.
M : Males. F : Females.

† Excludes Goa, Daman and Diu.

‡ Composite State.

§ Before reorganisation in Nov. 1966.

POPULATION ACCORDING TO RELIGION

States/Territories				Buddhists		Christians		Hindus	
				Males	Females	Males	Females	Males	Females
				1	2	3	4	5	6
Andhra Pradesh	..	..	R	2,781	3,106	579,779	569,632	13,607,235	13,447,431
			U	486	380	137,524	141,794	2,444,715	2,314,648
Assam	..	..	R	19,075	15,654	358,937	353,712	3,807,646	3,357,976
			U	991	793	26,034	26,870	434,353	284,946
Bihar	..	..	R	424	285	220,729	224,274	18,067,465	18,184,770
			U	1,444	732	29,848	27,344	1,726,967	1,367,848
Gujarat	..	..	R	869	560	25,511	23,825	7,291,165	6,956,600
			U	1,035	721	22,571	19,121	2,184,670	1,923,626
Jammu & Kashmir	..	..	R	22,886	22,972	617	557	426,715	389,858
			U	1,192	1,310	910	764	105,770	90,850
Kerala	..	..	R	20	17	1,545,783	1,538,317	4,303,121	4,458,286
			U	178	13	252,316	250,949	767,325	753,836
Madhya Pradesh	..	..	R	47,959	47,181	63,848	65,381	13,586,090	13,190,848
			U	9,279	8,946	31,958	27,129	1,973,968	1,674,892
Maharashtra	..	..	R	1,092,963	1,115,900	74,578	73,427	12,270,030	12,197,123
			U	307,844	272,794	219,868	192,721	4,509,242	3,554,506
Mysore	..	..	R	4,019	3,790	123,472	118,154	8,426,702	8,204,162
			U	1,010	951	124,054	121,907	2,073,414	1,878,575
Orissa	..	..	R	170	65	82,584	89,016	8,006,392	8,122,479
			U	115	104	16,530	12,887	552,083	442,240
Punjab†	..	..	R	6,250	5,840	62,375	55,610	5,200,840	4,612,452
			U	2,171	596	17,911	13,938	1,719,450	1,397,303
Rajasthan	..	..	R	133	28	3,171	2,979	8,149,856	7,439,635
			U	232	366	8,536	8,178	1,356,956	1,186,240
Tamil Nadu	..	..	R	112	79	588,827	600,584	11,409,029	11,403,373
			U	380	206	288,272	285,271	3,816,983	3,667,730
Uttar Pradesh	..	..	R	3,373	2,806	22,260	20,033	29,107,866	26,878,529
			U	3,661	3,053	31,147	28,201	3,627,674	2,823,244
West Bengal	..	..	R	41,411	41,774	63,445	58,885	10,395,381	9,740,387
			U	16,240	12,828	45,578	36,622	4,277,033	3,110,557
A. N. Islands	..	..	R	674	510	10,364	6,244	15,222	8,967
			U	302	221	861	504	5,799	2,793
Delhi	..	..	R	66	20	213	163	156,993	133,344
			U	2,909	2,471	14,850	14,043	1,098,131	846,189
Himachal Pradesh†	..	..	R	3,483	2,737	127	74	646,387	606,476
			U	64	24	273	118	33,059	24,097
L. M. & A. Islands	..	..	R	..	..	45	11	206	57
			U	..	..	..	..	..	..
Manipur	..	..	R	92	212	74,402	75,444	207,860	211,225
			U	10	11	1,368	669	30,839	31,188
Tripura	..	..	R	17,479	16,171	5,032	4,964	401,130	372,849
			U	46	20	28	14	49,895	44,124
Dadra & Nagar Haveli..	..	..	R	1	1	426	373	28,761	27,815
			U	..	..	..	..	..	..
Goa, Daman and Diu	..	..	R	152	9	85,087	106,901	163,338	168,080
			U	17	11	16,967	18,224	29,393	28,567
Pondicherry	..	..	R	6	6	8,834	9,335	126,248	124,616
			U	6	7	7,165	8,612	30,295	30,070
N.E.F.A.	..	..	R	Not available		..	..	..	..
			U	..	..	..	..	..	..
Nagaland	..	..	R	17	12	92,198	94,915	17,164	9,349
			U	10	3	4,805	3,670	5,477	2,687
All-India	..	..	R	1,287,499	1,301,621	4,093,841	4,093,196	155,875,110	150,291,881
			U	352,319	308,788	1,299,538	1,239,615	32,854,503	27,481,384

Note :—R : Rural. U : Urban. † Before reorganisation in Nov. 1966. ‡ Composite State.

The percentage of religionwise population to the total population in the country and the percentage increase during 1951-61 in brackets are :
Buddhists 0.74 (16.71) : Christians 2.44 (27.38) ; Hindus 83.51 (20.29).

POPULATION ACCORDING TO RELIGION—(Contd.)

		Jains		Muslims		Sikhs		Others	
		Males	Females	Males	Females	Males	Females	Males	Females
		7	8	9	10	11	12	13	14
Andhra Pradesh	R	926	614	754,350	741,973	543	390	107	81
	U	3,871	3,601	624,412	594,286	4,544	3,095	407	745
Assam	R	2,365	1,752	1,398,427	1,253,237	3,040	1,626	194,185	193,112
	U	3,610	1,741	69,004	44,841	3,251	1,769	7,211	7,614
Bihar	R	3,505	3,118	2,484,098	2,610,699	4,900	2,731	359,171	375,521
	U	6,161	4,814	365,206	325,628	20,693	16,089	10,838	10,308
Gujarat	R	79,628	91,259	429,523	410,987	1,040	632	2,476	2,641
	U	121,252	117,615	463,251	441,322	4,641	3,323	6,260	7,196
Jammu & Kashmir	R	401	4	1,104,304	957,897	20,014	21,427	9	..
	U	865	157	200,698	169,168	12,251	9,377	1	2
Kerala	R	715	663	1,228,640	1,273,234	189	122	700	767
	U	834	755	261,349	265,416	405	106	352	307
Madhya Pradesh	R	53,390	49,683	317,681	292,017	11,444	8,311	4,628	6,715
	U	77,279	67,575	373,399	334,520	26,086	19,874	1,197	1,132
Maharashtra	R	101,106	94,281	687,669	676,085	2,625	1,547	1,963	1,860
	U	159,536	130,749	923,805	746,773	32,343	21,102	45,310	45,968
Mysore	R	65,059	59,788	667,959	646,385	374	332	75	8
	U	26,879	22,644	525,933	488,099	1,737	844	240	210
Orissa	R	447	395	65,105	69,627	1,161	375	739	641
	U	808	645	42,099	38,488	2,263	1,231	90	67
Punjab*	R	6,021	5,682	189,137	158,932	3,172,130	2,742,162	531	255
	U	19,479	17,572	28,483	16,762	466,716	388,121	82	11
Rajasthan	R	119,556	119,102	418,608	378,447	130,112	113,000	44	53
	U	87,115	83,644	272,094	246,064	17,896	13,190	370	594
Tamil Nadu	R	5,962	6,238	315,661	344,304	606	178	11,389	10,083
	U	9,544	6,606	456,004	444,445	1,107	676	7,102	6,202
Uttar Pradesh	R	29,867	27,755	4,153,384	3,869,952	84,526	66,063	69	23
	U	33,720	30,766	1,460,644	1,304,109	75,743	57,405	267	261
West Bengal	R	2,244	1,257	3,056,151	2,943,562	2,830	1,327	17,582	19,201
	U	14,921	8,513	643,190	342,384	21,128	8,899	1,210	934
A. N. Islands	R	2	..	2,276	1,705	56	24	1,764	1,665
	U	1	..	1,879	1,538	89	72	15	1
Delhi	R	94	91	3,347	2,525	1,327	1,069	2	..
	U	15,472	13,938	87,077	62,494	108,786	92,734	161	163
Himachal Pradesh†	R	15	3	12,740	9,825	2,937	2,338	41	33
	U	44	33	1,772	1,282	1,755	1,407	..	..
L., M. & A. Islands	R	..	..	11,684	12,105	..	..	..	..
	U	..	..	..	..	..	..	..	..
Manipur	R	171	191	24,233	23,703	54	25	6,125	48,583
	U	244	172	392	260	236	208	1,032	1,088
Tripura	R	29	21	112,889	108,410	20	11	1	1
	U	88	57	4,589	4,114	10	8	1	3
Dadra & Nagar Haveli	R	68	52	250	193	..	..	18	5
	U	..	..	..	..	..	..	..	..
Goa, Daman and Diu	R	11	9	3,751	3,498	..	..	101	66
	U	27	21	3,436	3,481	..	..	254	266
Pondicherry	R	..	..	4,831	6,101	..	..	70	41
	U	42	34	5,727	6,811	12	2	111	103
N.E.F.A.	R	..	..	..	..	..	..	..	..
	U	..	..	..	..	..	..	..	..
Nagaland	R	6	..	166	125	115	4	69,595	66,277
	U	161	96	481	119	84	52	748	764
All-India	R	471,602	461,963	17,446,863	16,795,098	3,440,102	2,963,698	711,310	727,665
	U	581,949	511,753	6,914,962	5,882,434	801,776	639,594	84,060	83,929

Note:—R: Rural, U: Urban. † Before reorganisation in Nov. 1966. * Composite State.

The percentage of religionwise population to the total population in the country and the percentage increase during 1951-61 in brackets are: Jains 0.46 (27.17); Muslims 19.69 (25.61); Sikhs 1.79 (25.13); Others 0.37 (—13.07).

DIRECTORY & YEARBOOK

1961 Census—(Contd. from p. 53)

Speakers of Languages specified in Schedule VIII of the Constitution of India :

India/States	Malayalam	Marathi	Oriya	Punjabi	Sanskrit	Tamil	Telugu	Urdu
Tripura	34	20	11,583	111	—	49	1,713	21
Dadra & Nagar Haveli	1	34,118	—	—	—	—	136,140	9,521
Goa, Daman & Diu ..	121	11,883	—	14	—	286	209	2,594
Pondicherry	20,692	203	9	53	18	325,862	16,243	209
N.E.F.A.	737	242	236	1,157	—	587	243	56
Nagaland	928	51	145	628	—	86	89	119
Sikkim	108	61	11	166	—	35	26	—

All Languages in the Constitution.

India/States	Persons	Males	Females
India	382,333,847	197,559,915	184,773,932
Andhra Pradesh ..	35,072,272	17,693,776	17,378,496
Assam	9,599,321	5,154,138	4,445,183
Bihar	26,413,161	13,374,804	13,038,357
Gujarat	19,723,685	10,174,918	9,548,767
Jammu & Kashmir ..	2,952,586	1,577,063	1,375,523
Kerala	16,744,445	8,282,044	8,462,401
M.P.	28,068,464	14,397,467	13,670,997
Maharashtra	37,006,443	19,116,495	17,889,948
Mysore	21,811,264	11,166,500	10,644,764
Orissa	15,426,862	7,719,850	7,707,012
Punjab*	19,935,476	10,704,042	9,231,434
Rajasthan	7,697,363	4,114,738	3,582,625
Tamil Nadu	33,619,392	16,874,856	16,744,536
Uttar Pradesh	71,447,704	37,507,823	33,939,881
West Bengal	32,608,350	17,398,240	15,210,110
Union Territories and other areas	4,207,059	2,303,161	1,903,898
Andaman & Nicobar Islands ..	36,265	22,760	13,505
Delhi	2,613,907	1,465,349	1,148,558
Himachal Pradesh†	239,240	131,001	108,239
Laccadive, Minicoy & Amindivi Islands	20,093	10,255	9,838
Manipur	13,536	7,543	5,993
Tripura	777,112	404,330	372,782
Dadra & Nagar Haveli ..	46,081	23,503	22,578
Goa, Daman & Diu ..	59,573	29,796	29,777
Pondicherry	367,548	182,733	184,815
N.E.F.A.	16,486	13,177	3,309
Nagaland	13,869	10,275	3,594
Sikkim	3,349	2,439	910

* Composite State.

† Before reorganisation in Nov. 1966.

Source : Census of India, 1961, Vol. I, Part II-C (ii), Table C-V-A.

METEOROLOGY

Normal Monthly and Annual Maximum Temperature in Shade at Selected Stations in India

Stations	Eleva- tion in metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.
<i>Hill Stations</i>														
Darjeeling ..	2,128	9.3	11.1	14.8	18.0	18.6	19.3	19.8	19.8	19.9	18.6	15.3	11.9	16.4
Shillong ..	1,500	15.5	17.1	21.5	23.8	23.7	23.7	24.1	24.1	23.6	21.8	18.9	16.4	21.2
Simla ..	2,202	8.5	10.3	14.4	19.2	23.4	24.3	21.0	20.1	20.0	17.9	15.0	11.3	17.1
<i>Coastal Stations</i>														
Bombay ..	11	29.1	29.5	31.0	32.3	33.3	31.9	29.8	29.5	30.9	31.9	32.3	30.9	31.0
Madras ..	16	28.8	30.6	32.7	34.6	37.6	37.3	35.2	34.5	33.1	31.8	29.2	28.2	32.9

Normal Monthly and Annual Maximum Temperature in Shade at Selected Stations in India—(Contd.).

Stations	Eleva- tion in metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.
<i>Stations on the Plains</i>														
Allahabad ..	98	23.7	26.7	33.3	38.8	42.1	39.8	33.6	32.1	32.8	32.6	29.0	24.8	32.4
Calcutta ..	6	26.8	29.5	34.3	36.3	35.8	34.1	32.0	32.0	32.3	31.8	29.5	27.0	31.8
Kanpur ..	126	22.8	26.0	32.7	38.3	41.7	39.9	33.7	32.1	32.7	32.7	28.9	24.3	32.1
Cuttack ..	27	28.9	31.5	35.9	38.3	38.8	35.8	31.6	31.6	32.2	32.0	30.1	28.4	32.9
New Delhi ..	216	21.3	23.6	30.2	36.2	40.5	39.9	35.3	33.7	34.1	33.1	28.7	23.4	31.7
Lucknow ..	111	23.3	26.4	32.9	38.3	41.2	39.3	33.6	32.5	33.0	32.8	29.3	24.8	32.3
Patna ..	53	23.6	26.3	32.9	37.6	38.9	36.7	32.9	32.1	32.3	31.9	28.9	24.9	31.6
<i>Plateau Stations</i>														
Dehra Dun ..	682	19.1	21.4	26.4	32.1	36.2	35.3	30.4	29.5	29.6	28.2	24.7	20.9	27.8
Nagpur ..	310	28.6	32.5	36.4	39.7	42.8	38.4	31.2	30.4	31.5	31.9	29.9	28.7	33.5

Normal Monthly and Annual Minimum Temperature in Shade at Selected Stations in India

<i>Hill Stations</i>														
Darjeeling ..		3.0	4.3	7.7	10.8	12.9	14.7	15.4	15.4	14.6	11.5	7.4	4.4	10.2
Shillong ..		3.6	6.4	10.5	14.1	15.5	17.4	18.1	17.8	16.6	12.9	7.7	4.5	12.1
Simla ..		1.9	3.1	6.8	11.2	15.0	16.2	15.6	15.2	13.8	10.8	7.3	4.2	10.1
<i>Coastal Stations</i>														
Bombay ..		19.4	20.3	22.7	25.1	26.9	26.3	25.1	24.8	24.7	24.6	22.8	20.8	23.6
Madras ..		20.3	21.1	23.1	26.0	27.8	27.6	26.3	25.8	25.4	24.4	22.5	21.0	24.3
<i>Stations on the Plains</i>														
Allahabad ..		9.1	11.6	17.0	22.5	27.4	28.9	26.6	26.0	25.2	20.4	13.1	9.3	19.8
Calcutta ..		13.6	16.5	21.5	25.0	26.5	26.7	26.3	26.3	26.1	23.9	18.4	14.2	22.1
Kanpur ..		8.6	11.0	16.3	22.0	27.2	28.7	26.6	25.8	24.9	19.6	12.3	8.5	19.3
Cuttack ..		15.7	18.2	22.1	25.3	26.9	26.5	25.6	25.6	25.5	23.7	18.8	15.5	22.5
New Delhi ..		7.3	10.1	15.1	21.0	26.6	28.7	27.2	26.1	24.6	18.7	11.8	8.0	18.8
Lucknow ..		8.9	11.5	16.3	21.8	26.5	28.0	26.6	26.0	25.1	19.8	12.7	9.1	19.4
Patna ..		11.0	13.4	18.6	23.3	26.0	27.1	26.7	26.6	26.3	23.0	16.1	11.7	20.8
<i>Plateau Stations</i>														
Dehra Dun ..		6.1	8.2	12.4	17.0	21.5	23.6	23.1	22.7	21.3	16.1	10.3	7.0	15.8
Nagpur ..		12.7	15.1	19.1	23.9	28.4	26.9	24.0	23.7	23.1	20.0	14.1	12.1	20.3

Normal Monthly and Annual Rainfall at Selected Stations in India

Stations	Eleva- tion in metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
		mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
<i>Hill Stations</i>														
Darjeeling ..		10.9	31.7	53.9	113.3	231.4	597.1	809.5	643.4	445.5	142.5	19.6	6.3	3105.1
Shillong ..		14.0	29.2	56.4	146.1	295.4	475.7	358.9	342.7	302.3	188.2	38.3	6.1	2253.3
Simla ..		64.8	70.1	64.0	45.7	59.7	149.1	416.1	419.1	182.4	33.3	10.2	27.7	1542.2
<i>Coastal Stations</i>														
Bombay ..		4.1	2.0	1.5	1.5	18.3	464.8	613.4	328.9	286.0	64.5	17.5	2.3	1804.8
Madras ..		45.5	12.5	13.2	17.5	37.9	44.7	86.6	113.0	119.4	305.8	350.3	139.2	1285.6
<i>Stations on the Plains</i>														
Allahabad ..		19.6	20.6	14.5	5.3	14.0	96.0	313.4	261.1	217.4	34.3	8.6	7.6	1012.4
Calcutta ..		11.9	27.9	34.0	50.5	133.9	290.1	331.2	334.0	252.7	127.3	27.2	4.1	1624.8
Kanpur ..		13.7	18.3	8.4	6.1	8.4	70.1	262.4	274.1	179.1	30.2	6.6	7.4	884.8
Cuttack ..		11.2	27.7	21.6	30.7	80.0	230.9	353.1	353.6	236.5	141.7	45.2	7.1	1539.3
New Delhi ..		20.8	23.6	12.9	9.7	9.7	67.6	186.2	169.9	134.9	14.2	2.0	8.6	660.1
Lucknow ..		17.5	20.6	8.6	9.1	15.0	88.9	308.1	286.5	213.1	35.1	5.6	6.3	1014.4
Patna ..		15.5	22.1	9.4	8.4	30.0	158.0	276.1	340.4	237.7	54.6	8.9	5.3	1166.4
<i>Plateau Stations</i>														
Dehra Dun ..		57.9	66.8	37.9	19.6	35.8	184.4	655.6	713.0	304.5	41.9	7.6	24.9	2149.9
Nagpur ..		11.4	23.4	16.8	16.3	20.8	222.0	376.2	286.3	184.7	54.6	19.8	9.9	1242.2

Statement of Sub-divisional means of rainfall in millimetres during the period June to September 1967

Sub-Divisions	Actual	Normal	Departure from normal	Percentage departure from normal
Bay Islands	1479	1597	-117	- 7
North Assam (including NEFA)	1374	1600	-226	-14
South Assam (including Nagaland, Manipur & Tripura)	1249	1559	-310	-20
Sub-Himalayan West Bengal	2271	2351	- 80	- 3
Gangetic West Bengal	1181	1127	+ 54	+ 5
Orissa	1099	1171	- 72	- 6
Bihar Plateau	1059	1127	- 68	- 6
Bihar Plains	920	1043	-122	-12
Uttar Pradesh, East	1007	949	+ 58	+ 6
Uttar Pradesh, West	1173	897	+276	+31
Haryana (including Delhi)	845	589	+255	+43
Punjab	484	463	+ 21	+ 5
Himachal Pradesh	1377	1178	+200	+17
Jammu and Kashmir	236	289	- 53	-18
Rajasthan, West	262	261	+ 1	- 0
Rajasthan, East	638	619	+ 19	+ 3
Madhya Pradesh, West	823	963	-140	-15
Madhya Pradesh, East	1246	1231	+ 15	+ 1
Gujarat Region (including Daman, Dadra and N. Haveli)	869	846	+ 23	+ 3
Saurashtra and Kutch (including Diu)	672	549	+123	+22
Konkan (including Goa)	2504	2197	+307	+14
Madhya Maharashtra	522	511	+ 11	+ 2
Marathwada	595	653	- 57	- 9
Vidarbha	802	970	-168	-17
Coastal Andhra Pradesh	571	555	+ 17	+ 3
Telangana	827	765	+ 61	+ 8
Rayalaseema	385	388	- 3	- 1
Tamil Nadu (including Pondicherry)	304	263	+ 41	+15
Coastal Mysore	3059	2921	+138	+ 5
Interior Mysore, North	650	580	+ 69	+12
Interior Mysore, South	365	417	- 51	-12
Kerala	1853	1663	+190	+11
Arabian Sea Islands	993	987	+ 6	+ 1

Note :—In calculation of excess and defects and their percentages, rainfall figures are taken correct to 0.1 mm.

LIVESTOCK

THE total livestock population in India (excluding poultry) is placed at 343.7 million, according to the 1966 livestock census as against the 1961 census figure of 336.4 million, an increase of 2.2 per cent. About half of this is cattle amounting to 175.99 million, sheep 40.0 million, goats 64.5 million, Buffalos 52.9 million and poultry 115.0 million, horses and ponies 1.1 million, pigs 4.9 million, camels 1.0 million and other livestock 1.1 million. The net contribution of livestock to the national income at present is estimated to be over Rs. 30,000 million excluding Rs. 4,000 million contribution in terms of bullock/draught power. Their foreign exchange earnings were as much as Rs. 880 million in 1966-67 amounting to 8 per cent of the total foreign exchange earnings of the country and about 29 per cent of such earnings from important agricultural commodities and products.

Meat from livestock is a valuable source of protein; about 0.9 per cent of the total cattle population is slaughtered for meat, and 36 and 32.5 per cent of the goat and sheep population respectively. The annual production of meat from goat is about 0.15 million tons and that of

mutton 0.11 million tons. Production of beef, buffalo flesh and pork amounts to 0.12, 0.09 and 0.02 million tons respectively. The total annual production of meat from all species is estimated to be over 0.46 million tons valued at Rs. 1,000 million.

CATTLE

Among the well-defined breeds of cattle (25 and 8 of buffaloes), three broad divisions are: dairy or milch and draught cattle and those that serve a dual purpose.

Dairy Milch :—The Sahiwal, the best milch breed, are responsive to environment, have an yield of 4,000 lbs. a year. The Sindhi are also responsive to environment, the Gir in Saurashtra and Rajasthan have an yield of 3,700 lbs. a year. In the order of the productivity of milk the cattle may be arranged as follows: the Sahiwal, the Kankrej, the Ongole.

Draught :—The Amritmahal Hallikar (Mysore) are good for draught purposes but are poor milkers.

Dual :—The Galo in Madhya Pradesh are draught animals but also good milkers, 3,000 lbs. The Kangayam

in the south and south-east of the country are powerful draught animals of average milk yield. The Kankrej, are essentially draught but have milk potentialities (3,000 lbs.); they belong to Gujarat. The best known in this group are the Haryana (Punjab, 3,000 lbs.), Tharparkar (Gujarat and Rajasthan, 3,000 lbs.), and Ongole (Andhra).

The best known breeds of buffaloes (26 in all) are the Murrah, Nili and Ravi of the Punjab, the Jufferbadi of Kathiawad, Mehsana of Gujarat, Nagpuri of Vidarbha and the Surti and Pandharpuri (a type of Nagpuri buffaloes) of Maharashtra. All except the Nagpuri are noted dairy breeds. Murrah is adapted to all climates. They also yield on an average about 3,000 lbs. of milk for over 300 days in a year.

The average annual milk yield of a buffalo is 1,100 lbs. against 413 lbs. of the Indian cow. Buffalo milk being one and a half times as rich in fat content as cow milk, is more valued for butter and ghee production. Buffaloes are also better utilisers of coarse fodder and are less expensive to keep.

It is estimated that contribution of draught power in terms of rupees is about four hundred crores. The area cultivated by a pair of working animals is about 8.16 acres.

Livestock Development is stepped up through special schemes such as key village blocks with cattle breeding farms and arrangements for bull rearing, artificial insemination, subsidised calf rearing and also Goshalas and Gosadans.

Cattle Development Programmes; Achievement during 1966-67 and 1967-68 respectively: Key Village Blocks (Nos.): (a) Established (15; 17); (b) Expanded (16; 12); (c) Central semen collection stations (—; —); (d) Marketing Cell (—; —); Subsidised rearing of calves (Nos.) (—; 1,150); *Cattle breeding farms* (Nos.): Established (—; 3); Establishment of bull breeding farms (Nos.) (—; —); Goshalas. (Nos.) (—; —); Gosadans (Nos.) (—; 62); *Feed and Fodder* (a) Pasture demonstration plots (No. established) (—; —); (b) Pasturage improvement (—; —); (c) Farms for forage seed (—; —); (d) Forage production (Regional) stations (—; 3).

Intensive Cattle Development Programme

Intensive cattle development projects: Andhra 2, Bengal 1, Bihar 2, Gujarat 3, M.P. 2, Maharashtra 4, Tamil Nadu 3, Mysore 3, Orissa 1 and U.P. 3. This area development has been introduced also for sheep, poultry and piggyery.

Service Training Centres:—For the development of livestock six service training centres were established. The services of F.A.O. experts have been obtained to conduct four practical training courses of two months' duration each in artificial insemination and physiology of reproduction.

Feed and Fodder:—During 1966-67 the programme of feed and fodder resources operated in all the States except Nagaland and four Union Territories.

Salvaging:—Under the scheme for the salvage of superior calves from milk colonies, 1,150 calves of six months age and above were bought from Aarey and Haringhata milk colonies during 1967-68 and distributed freely to *bona fide* breeders.

Gosadans:—The Gosadan Scheme aims at the removal and segregation of old, unproductive and uneconomic cattle.

Gaushala Development: The object is to convert them into efficient milk production centres and to breed better cattle. Total number of gaushalas taken up for development since the initiation in the 2nd Five-Year Plan upto 1967-68 was 397 and they functioned.

SHEEP

India produces over 35 million kg. of wool annually accounting for 1.3 per cent of world's production, Rajasthan accounting for about 40 per cent of the production. Though annually an average 11 million kg. valued over Rs. 68 million are exported about 11 million kg. were imported in 1966-67.

Sheep also supply meat worth about Rs. 120 million every year in addition to pelts and manure. 15.3 million sheep skins are used in leather industry. An individual sheep contributes 0.5 to 0.7 tons of manure annually.

Research in sheep breeding is promoted in three major sheep rearing tracts, viz. Temperate Himalayan, North Indian Plains and in the Deccan Plateaux, to evolve strains of sheep which will yield wool for apparel and also for superior types of carpets.

73 sheep breeding farms were set up during 3rd Five Year Plan for producing quality stud rams and 459 sheep and Wool Extension Centres under rural flocks improvement programme. Under the special development programme (Crash programme) ten new sheep farms have been established, 20 of the existing ones expanded and 67,300 sheep were distributed amongst the farming committees of various States.

GOATS

Goats besides being the principal source of meat supply, also provide manure, skin, hair (Mohair) and milk.

Important breeds of Indian goats:—Himalayan Goats are found in the hills of Kashmir, Punjab* and Uttar Pradesh. These are mostly reared for mohair production and also for meat. The Pashmani goat of Kashmir produces an undercoat of very fine variety of hair which goes into the manufacture of shawls. The plain goats comprise some of the best mutton and milch animals. Some of the better known breeds are Marwari, Konor and Jamnapari. The last yields 600 lbs. in a lactation of 250 days. Deccan plateaux goats yield small quantities of milk and are mostly reared for mutton.

Results from the Punjab* and U.P. have shown that selected goats yield (6 to 8 lbs. milk per day going upto even 12 lbs. in U.P.) on an average about 400 lbs. of milk per lactation of 150 days while a few went up to 700 lbs. and even higher.

POULTRY

There were about 115 million poultries in India in 1966. The annual contribution of Indian poultry to the country's economy is not less than Rs. 100 million. The *per capita* consumption of eggs in India is only four per annum as compared with 400 in U.K., U.S.A. or Denmark.

Poultry Development:—Achievements at the end of the Third Five Year Plan are: State Poultry Farms 100; District Poultry Farms 47; Intensive Poultry Development Blocks 79; Marketing Centres 12; Duck Extension Centres 20; Feed Manufacturing Centres 60; Training persons in poultry keeping 21,724.

Two Poultry Dressing Plants have also been set up at Poona and Chandigarh.

Piggery:—So far seven bacon factories, 27 pig breeding farms and 105 piggery development blocks have been set up in various States. The combined strength of seven main pig breeding stations is about 3,800 pure-bred pigs from which 2,700 pigs were distributed to farms in intensive piggery development areas.

* Composite State.

DAIRYING

Milk and milk products contribute not less than Rs. 6,200 million to the national income.

Of 200 million cattle and buffaloes, 72 million or 36 per cent are milch animals (females over 3 years). Milk yield is, however, low: Cow 413 lb. per year, buffalo 1,100 lb.

Gross production of milk is 20.65 mln. tons, of which 13.2 mln. tons are marketed, the rest being used for home consumption or for feeding the calves. *Per capita* daily consumption of milk and milk products varies from 16.89 oz. in the Punjab* to 26.4 oz. in Orissa; average 5.5 oz. The *per capita* availability of milk during 1965-66 was 5.75 oz.

Total number of dairy plants in operation in 1967-68 increased to 84 comprising 43 liquid milk plants, 34 pilot milk schemes, four milk powder factories and three creameries. The average daily output of milk of all plants was about 16 lakh litres as against 15.50 lakh litres in 1966-67.

In the milk powder factories at Anand, Amritsar, Mehsana and Rajkot, the average daily production of milk powder including infant milk food amounted to about 18 tonnes. The three creameries, at Aligarh, Barauni and Junagadh and the plants at Anand, Amritsar, Calcutta and Delhi manufacture on an average 22 tonnes butter per day. A milk products plant is being established at Miraj, milk powder factory at Vijayawada and an infant milk food plant in the co-operative sector at Moradabad. Two milk powder plants in Punjab and one in Haryana are being established under Yugoslav credit programme.

Training in dairying was imparted at six centres *viz.* Karnal, Bangalore, Aarey, Allahabad, Anand and Har-ringhata.

List of dairy plants in operation

State	Plants in operation Average (1,000 litres)			
	Location	Capacity	Daily	
Andhra Pradesh	Guntur	4.0	0.451	
Bihar	Kurnool	4.0	0.930	
	Barauni	2.0	22.00 kg	
	(Cream in kg.)		+790	
			litre milk	
	Bhagalpur	6.0	6.46	
	Gaya	6.0	0.33	
	Patna	10.0	2.21	
Gujarat	Ahmedabad	275.0	55.0	
	Anand (milk product)	200.0	135.14	
	Baroda	35.0	17.64	
	Bhavnagar	6.0	0.59	
	Jamnagar	10.0	1.4	
	Junagadh (Cream in kg.)	2000	—	
	Mehsana (milk product)	100.0	36.36	
	Rajkot	37.5	12.86	
	Surindernagar	6.0	0.74	
	Srinagar	10.0	5.5	
Jammu & Kashmir				
Kerala	Calicut	6.0	4.48	
	Palghat	—	—	
	Trivandrum	6.0	7.63	
	Ernakulam	10.0	—	

* Composite State.

List of dairy plants in operation—(Contd.)

State	Plants in operation Average (1,000 litres)			
	Location	Capacity	Daily	
Madhya Pradesh	Bhopal	10.0	2.59	
Maharashtra	Bombay (city) ..	460.0	330.61	
	Kolhapur	6.0	4.95	
	Nasik	6.0	1.6	
	Poona	70.0	43.1	
Mysore	Bangalore	50.0	19.77	
	Kudige	4.0	1.56	
Orissa	Cuttack	6.0	3.23	
Punjab*	Amritsar (milk product)	80.0	37.98	
	Chandigarh	20.0	21.44	
	Hissar	6.0	2.67	
	Jaipur	6.0	4.94	
Rajasthan	Jaipur	6.0	4.94	
	Coimbatore	10.0	10.93	
Tamil Nadu	Kodaikanal	4.0	0.55	
	Madras (city)	80.0	21.58	
	Tiruchirapalli	6.0	6.5	
	U. Pradesh	Agra	6.0	2.36
Aligarh (Creamery in kg.)		2000	1350	
Lucknow.. ..		40.0	11.16	
West Bengal	Calcutta (city)	200.0	130.72	
UNION TERRITORIES				
Himachal Pradesh		—	—	
Tripura	Agartala	6.0	2.49	
Goa		—	—	
Centre	Delhi	255.0	197.1	

ANIMAL DISEASES

The chief diseases are glanders and surra in equines, foot and mouth disease, haemorrhagic septicaemia, black quarter and anthrax in ruminants and tuberculosis, John's disease and contagious abortion. Glanders is incurable but surra can now be successfully treated with Naganol or Antrypol. This disease (surra) also affects camels, cattle and dogs.

Rinderpest causes a mortality of about 60 per cent resulting in an annual loss of 0.4 million heads of cattle, valued at about 300 million rupees. Because of the eradication campaign of the past, Kerala, Mysore and Madras are now free from the disease. But, further north, in Andhra Pradesh, Gujarat and Maharashtra State the disease is prevalent and a pilot scheme to vaccinate and brand about 12 million cattle and buffaloes has been in operation since October 1954.

Research and Educational Institutions

The Indian Veterinary Research Institute having centres at Uttar Pradesh, Izatnagar, and at Mukteswar near Bareilly, supplies the veterinary demands of India for sera and vaccines. Problems of sheep and wool are investigated at the Central Sheep and Wool Research Institute, Malpura (in Rajasthan).

Research in dairying is done at the National Dairy Research Institute, Karnal (Haryana) and at its southern regional station at Bangalore (Mysore). Other Institutes are the Agricultural Institute, Allahabad, The Indian Veterinary Research Institute, Izatnagar, National Dairy Research Institute, Karnal and the Central Sheep and Wool Research Institute, Malpura. The eight agricultural universities already established invariably contain animal husbandry wings.

There are 20 Veterinary Colleges in India, one each at Hyderabad, Tirupathi (Andhra Pradesh); Gauhati (Assam); Patna and Ranchi (Bihar); Anand (Gujarat); Trichur (Kerala); Jabalpur and Mhow (Madhya Pradesh); Madras (Tamil Nadu); Bombay, Nagpur (Maharashtra); Hebbal (Mysore); Cuttack (Orissa); Hissar (Haryana); Bikaner (Rajasthan); Mathura, Nainital and Izatnagar (Uttar Pradesh); Kalyani and Calcutta (West Bengal).

Animal Husbandry Research

Coordinated scheme on cross breeding of cattle in hilly and heavy rainfall areas of the country with *Jersey* semen has been in operation at 8 centres in different parts of the country, while the scheme for development of hill cattle by cross breeding with *Jersey* was in operation in 11 States.

Research in Animal Sciences hereafter will be promoted through coordinated projects.

LIVESTOCK STATISTICS

The following table shows the estimates of livestock population for 1966.

(In thousands).

Area	Cattle	Buffaloes	Sheep	Goats	Horses & Ponies	Other Livestock	Total Livestock	Poultry
STATES								
Andhra Pradesh	12,341 (-0.03)	6,791 (-2.3)	8,004 (-4.3)	3,758 (-11.5)	48.9 (-22.0)	650.6	31,594 (-3.2)	14,715 (-9.4)
Assam	6,562 (+1.1)	579.7 (-0.6)	73 (+36.9)	1,594 (-15.4)	45.8 (+161.0)	425.5	9,279 (-2.1)	10,984 (+10.9)
Bengal (West)	12,576 (+9.6)	1,043 (+5.8)	639 (+19.4)	4,835 (7.1)	27 (10.6)	145.6	19,266 (9)	12,818 (8.9)
Bihar	15,156 (-5.9)	3,654 (-1.2)	1,247 (7.8)	7,801 (-9.7)	116 (-12.6)	680.0	28,655 (-6.3)	10,850 (-11.4)
Gujarat	6,544 (-0.2)	3,140 (7.7)	1,652 (11.5)	2,771 (24.6)	70 (-37.8)	159.3	14,338 (6.6)	2,324 (13.5)
Jammu & Kashmir	1,791 (-2.7)	428 (6.8)	1,152 (-0.9)	605 (4.9)	66 (-5.2)	36.3	4,079 (-0.2)	1,535 (-4.7)
Kerala	2,857 (3.8)	471 (-2.9)	11 (-52.5)	1,189 (-9.4)	@ (4.4)	112.3	4,641 (-1.2)	9,909 (8.8)
Madhya Pradesh	24,645 (-0.5)	5,607 (0.6)	1,015 (0.6)	6,609 (19.3)	150 (-26.1)	453.8	38,478 (2.4)	5,739 (-12.1)
Maharashtra	14,681 (-4.2)	3,029 (-1.9)	2,200 (5.1)	5,104 (-1.5)	100.6 (-3.7)	249.9	25,366 (-2.6)	9,887 (-6.5)
Mysore	9,685 (0.1)	2,946 (-2.6)	4,748 (-0.4)	2,784 (-3.0)	65 (56.5)	256.99	20,485 (-0.9)	8,277 (-6.4)
Orissa	10,316 (5.2)	1,262 (17.4)	1,182 (18.9)	3,045 (27.9)	66 (13.3)	193.6	16,065 (10.6)	7,681 (17.3)
Punjab	6,024 (-0.6)	5,094 (15.1)	1,196 (29.3)	1,390 (13.3)	68 (-10.1)	546	14,319 (8.1)	2,209 (29.9)
Rajasthan	13,129 (-0.1)	4,206 (4.7)	8,805 (19.6)	10,561 (31.2)	63 (-32.7)	936	37,701 (12.5)	876 (22.1)
Tamil Nadu	10,859 (0.3)	2,724 (5.0)	6,621 (-7.5)	3,771 (10.0)	17 (-15.9)	576	24,569 (-0.3)	11,226 (-0.6)
Uttar Pradesh	25,986 (-1.1)	11,438 (4.2)	2,521 (2.4)	8,126 (2.1)	231 (-21.9)	1,517.1	49,821 (0.8)	3,647 (12.1)
Delhi	82 (-13.1)	104 (3.7)	5.7 (-39.9)	13 (-29.7)	7 (20.1)	15.4	227 (-9.1)	129 (106.2)
Himachal Pradesh	1,244 (2.7)	224 (7.8)	729 (10.2)	569 (-4.9)	9.0 (58.3)	8.7	2,785 (3.4)	146 (61.2)
Manipur	288 (-1.7)	47 (-13.5)	8 (96.7)	12 (-34.2)	0.8 (51.8)	86	444 (-12.9)	623 (-27.0)
Nagaland	76	4	—	12	0.5	121	215	438
Pondicherry	71 (-10.1)	10 (-7.0)	7 (-11.8)	32 (-9.4)	@ (-43.8)	2	123 (-9.3)	107 (5.4)
Tripura	553 (11.8)	48 (14.0)	2 (-34.5)	124 (-21.4)	1.2 (13.7)	31	761 (3.5)	637 (-5.7)
Andaman & Nicobar Islands	10 (37.1)	8.1 (-3.0)	@ (-27.8)	10 (17.6)	@	27	497 (28.7)	98.6 (28.7)
Laccadive, Minicoy & Amindivi Islands	1.3 (71.0)	—	—	5.4 (42.3)	—	—	6.8 (47.8)	18.5 (22.6)
Dadra & Nagar Haveli	38	3	@	12.7	@	@	55	39
TOTAL INDIA	175,987 (+0.2)	52,876 (+3.3)	42,010 (+4.4)	64,549 (+6.1)	1,148 (-13.5)	7,157	343,727 (+2.2)	115,071 (+0.7)

1966 figures are tentative and subject to revision (and do not contain census data for Goa, Daman & Diu and NEFA). @ Below 500.

Figures given in the bracket (for 1966 items) are percentage increase/decrease over 1961 census figures. Census of Nagaland was carried out for the first time only in 1966.

BANKING

SCHEDULED COMMERCIAL BANKS

DURING 1967, the number of scheduled commercial banks, which account for most of the banking business in India stood at 71. At the end of 1967, the total number of branch offices of scheduled commercial banks reached a new peak of 6,816.

The number of offices actually opened during the year was 223 at banked centres and 182 at unbanked centres. Of these, the State Bank of India and its subsidiaries opened 44 branches at banked centres and 101 at unbanked centres.

During the year four more clearing houses were established, bringing the total number of clearing houses to 91.

The number of foreign offices of the Indian banks declined from 61 to 58 consequent on the closure of four offices in Tanzania and opening of one in U.K. Six scheduled banks went into liquidation, of which two were ordered to be wound up by the high courts. The total number of banks absorbed was nine. Of these, six banks (one each in Mysore, Bihar, West Bengal and Kerala States and two in Tamil Nadu) transferred their liabilities and assets to other banks in the private sector. The State Bank of India acquired the business of the remaining three.

Principal Assets and Liabilities of 73 scheduled Commercial banks as on last Friday of December, 1967.

(Rs. crores)

Aggregate Deposits (A + B)	..	..	3,763.1
A. Demand Deposits	..	..	1,781.2
B. Time Deposits	..	..	1,981.9
Borrowings from RBI	..	..	7.6
Cash in hand and balances with RBI	..	..	276.6
Total Bank Credit	..	..	2,727.3
Investments (A + B)	..	..	1,233.4
A. Government Securities	..	..	1,005.9
B. Others	..	..	227.5
Bank credit expressed as percentage of Deposits	..	..	72.5
Investments expressed as percentage of Deposits	..	..	26.7

DEPOSITS

The rate of growth of bank deposits decelerated in 1967 compared with 1965 and 1966. Adjusted for the transfers of P.L. 480 funds from the State Bank of India to RBI, the rate of accretion worked out to 11.0 per cent in 1967 against 16.1 per cent in 1966 and 14.2 per cent in 1965. The rate of growth (percentage increase) is given below: 1961 + 1.5; 1962 + 8.0; 1963 + 11.5; 1964 + 11.5; 1965 + 14.2; 1966 + 16.1; 1967 + 11.0.

Aggregate deposits rose from Rs. 3,378 crores in 1966 to Rs. 3,763 crores in 1967. Of this the Demand Deposits (excluding inter-bank deposits) amounted to Rs. 1,781 crores (47.3 per cent), Time Deposits (excluding inter-bank deposits) Rs. 1,982 crores (52.7 per cent). The distribution by type of deposits is given below: (1) current deposits Rs. 899 crores (23.9 per cent) (2) Saving Deposits Rs. 945 crores (25.1 per cent) (3) Fixed Deposits: Rs. 1,881 crores (50.0 per cent), others: Rs. 39 crores (1.0 per cent).

The pattern of interest paid on bank deposits showed that no interest was paid on 24.7 per cent of deposits

while those bearing interest of less than 3½ per cent and between 3½—4 per cent constituted 4.5 per cent and 23.3 per cent respectively. A rate of over 4 per cent but not exceeding 6 per cent was payable on 31.7 per cent of deposits. The share of deposits earning over 6 per cent formed 15.3 per cent.

Aggregate Deposits in Rs. crores of ten leading Banks at the end of 1967: State Bank 958.9; Central Bank 395.4; Bank of India 338.5; Punjab National Bank 313.9; Bank of Baroda 275.0; United Commercial Bank 215.1; United Bank 130.2; Canara Bank 126.6; Dena Bank 102.1; Allahabad Bank 101.2.

Source: The Economic Times.

CREDIT EXPANSION

At the end of December 1967, the total secured advances of scheduled commercial banks at Rs. 2,356 crores were 14.1 per cent higher than a year ago. Unsecured advances showed a marginal decline from Rs. 365 crores in 1966 to Rs. 363 crores in 1967. The total outstanding advances at the close of 1967 amounted to Rs. 2,720 crores.

Advances of scheduled commercial banks to small-scale industries doubled between March 1966 and March 1967 from Rs. 90.8 crores to Rs. 177.9 crores. The share increased from 3.9 per cent to 6.6 per cent in March 1967. Medium loans amounted to Rs. 226.3 crores as on March 31, 1967 and formed 13.0 per cent of the total advances to industry and 8.3 per cent of the total bank credit.

Table I

ADVANCES OF 72 SCHEDULED COMMERCIAL BANKS ACCORDING TO PURPOSE

		(Amount Rs. Crores)	
		March 31, 1967*	
		Amount	Percentage
I.	Industry	17,47.25	64.3
II.	Commerce	5,26.50	19.4
III.	Financial	96.82	3.6
IV.	Agriculture	56.64	2.1
V.	Personal	1,14.78	4.2
VI.	Governments and Local Authorities	13.10	0.5
VII.	All Others	1,61.38	5.9
VIII.	Total	27,16.47	100.0

* Provisional.

Deposit Insurance

As on the last Friday of September, 1967, the latest date for which data are available, the total number of deposit accounts with insured banks was 155.26 lakhs, of which 118.67 lakhs (with balances not exceeding Rs. 1,500) or 76.4 per cent of the total number of accounts were fully insured at the Corporation. With effect from January 1, 1968, the Corporation increased the limit of insurance cover in respect of the amounts due to any one depositor from a registered commercial bank, from Rs. 1,500 to Rs. 5,000; however, the existing rate of premium at 5 paise per Rs. 100 per annum would continue. With this increase in the limit of insurance cover, the percentage of fully protected accounts has increased approximately to 91.

With a view to extending the scheme of deposit insurance to cover State and central co-operative banks and larger non-agricultural credit societies, i.e. urban co-operative banks with paid-up capital and reserves of Rs. 1 lakh or more, the Deposit Insurance Corporation (Amendment) Bill, 1967, was introduced in the Lok Sabha on July 17, 1967.

DEPOSITS WITH NON-BANKING COMPANIES

On October 29, 1966 two new directives viz. (1) Non-Banking Financial Companies (Reserve Bank) Directions 1966 and (2) Non-Banking Non-Financial Companies (Reserve Bank) Directions, 1966 were issued extending the Bank's control to all: (i) non-banking financial companies and (ii) non-banking non-financial companies accepting deposits, and that the directions were brought into force with effect from January 1, 1967. The directives provided, *inter alia*, for restricting acceptance of deposits to 25 per cent of paid-up capital and free reserves in the case of both non-banking financial and non-banking non-financial companies (other than housing finance and hire-purchase finance companies).

The Bank made certain modifications in the directives on August 23, 1967 as follows: (1) In the case of all non-banking companies, financial or non-financial, the Bank decided that any amount held in the statutory development rebate reserve, created under Section 34(3) of the Income-tax Act, 1961, may (notwithstanding the fact that the period of eight years specified in that section might not have been completed in respect of all the assets) be counted as a free reserve and (2) in the case of industrial concerns as defined in the directives which (a) have paid dividends on their equity shares at six per cent or more per annum in the five years or in five out of six or seven years immediately preceding January 1, 1967 or (b) have unencumbered fixed assets of book value in excess of twice the amount of the deposits and the unsecured loans, the time limit of two years, for the adjustment of the deposits already received in excess of 25 per cent of the paid-up capital and free reserves including the development rebate reserve, will be increased to five years, i.e. upto the end of December 1971. (A company, which has already received deposits in excess of this limit, will however not be permitted to receive additional deposits.)

DEPOSITS WITH NON-BANKING COMPANIES (INCLUDING BRANCHES OF FOREIGN COMPANIES)

End of March 1966

		(Rs. crores)	
		No. of companies accepting deposits	Total amount of the deposits
Hire-purchase companies	.. ..	123 (108)	14.4 (8.7)
Other financial companies		270 (155)	40.5 (12.6)
Non-financial companies		1,964 (987)	228.5 (65.7)
Total	.. ..	2,357 (1,250)	283.4 (87.0)

Note: Figures within brackets indicate the number of private limited companies and the deposits accepted by them (included in the figures outside the brackets).

SOCIAL CONTROL OVER BANKS

The Banking Laws (Amendment) Bill, 1967, was introduced in the Lok Sabha on December 23, 1967, to provide for the extension of social control over banks. The Bill was referred to a Select Committee of the Lok Sabha, whose report was submitted to the Lok Sabha on May 6, 1968. The Bill was passed by the Lok Sabha in the monsoon session in 1968 and by the Rajya Sabha on 5th December 1968. The President gave his assent in January 1969. Commercial banks have already undergone changes in their set-up on the lines indicated in the legislation on banks which now have full-time chairmen who are professional bankers. The main features of social control, as envisaged, are summarised in the following paragraphs.

With a view to providing a forum for discussing and assessing credit priorities on an all-India basis, a high level body called the National Credit Council was set up in terms of Government Resolution No. F. 4(43) BC/67 dated December 22, 1967. The main functions of the Council are periodically to (a) assess the demand for bank credit from the various sectors of the economy; (b) determine priorities for the grant of loans and advances or for investment, having regard to the availability of resources and requirements of the priority sectors, in particular, agriculture, small-scale industries and exports; (c) co-ordinate lending and investment policies as between commercial and co-operative banks and specialised agencies to ensure the optimum and efficient use of the overall resources; and (d) consider other allied issues as may be referred to it by the Chairman or the Vice-Chairman.

The membership of the Council is not to exceed twenty-five. Five of these are permanent members. The Minister of Finance is the Chairman and the Governor of the Reserve Bank the Vice-Chairman. The other three permanent members of the Council are: (i) Deputy Chairman, Planning Commission, (ii) Secretary, Ministry of Finance, Department of Economic Affairs, and (iii) Chairman, Agricultural Refinance Corporation. The remaining twenty members of the Council, whose tenures are for such periods not exceeding three years as the Government may fix, are appointed by the Government of India to secure adequate representation for the various sectors, viz. the commercial banks, the co-operative sector, large and medium-scale industries, small-scale industry, agriculture, trade including export trade and professional groups including economists. The Council is also authorised to invite such persons, as it may consider necessary to be associated with its deliberations. It would meet as often and at such places as may be determined by it but not less frequently than twice a year. The Reserve Bank provides the Council such secretarial and other assistance as may be necessary.

The Government would be empowered to acquire the business of a particular bank, after providing for compensation, if it fails more than once to comply with any directions issued to it under Section 21 of the Banking Regulation Act, relating to the policy in regard to advances or under Section 35A of that Act relating to matters involving broader issues of policy and if in addition, the acquisition of the bank is considered necessary in the interests of the depositors or in the public interest or in the interests of banking policy.

In the initial stages, the powers of social control would be exercised in respect of major banks with deposits of over Rs. 25 crores. Over a period of time, these would be extended to all banks.

BULLION

The following table gives details about the trend of silver production from 1965 to 1967:—

(In millions of ounces)			
Countries	1965	1966	1967
United States of America	39.8	43.7	31.0
Mexico	40.3	43.0	38.3
Canada	31.9	33.4	37.1
Peru	35.3	37.0	37.0
Bolivia	4.1	5.0	5.0
Other South and Central American Countries ..	10.2	10.0	10.0
Total Western Hemisphere	161.6	172.1	158.4
Outside the Western Hemisphere	53.7	55.0	55.0
World Production ..	215.3	227.1	213.4

The recent trend of silver consumption (partial data) is given in the following table:—

(In millions of ounces)			
	1965	1966	1967
INDUSTRIAL USES			
United States	137.0	150.0	145.0
West Germany	54.6	48.2	48.2
United Kingdom	25.0	25.0	24.0
Canada	5.3	5.5	5.4
Japan	25.0	27.0	31.1
France	14.0	14.7	14.7
Italy	35.0	35.0	33.0
Mexico	4.7	5.1	5.0
India	16.0	16.0	15.0
Other Countries	30.0	30.0	30.0
Total	346.6	356.5	351.4
COINAGE			
United States*	320.3	53.6	43.8
France	7.2	10.6	9.6
Italy	2.4	2.5	1.6
Canada	20.4	14.7	8.2
Japan	5.8	5.0	—
Other Countries	24.5	20.0	15.0
Total Coinage	380.6	106.4	78.2
World Total consumption of Silver excluding Communist countries	727.2	462.9	429.6

Note:—The consumption estimates are by Handy and Harman.

* Coinage for consumption purpose are obtained entirely from Treasury stocks and have never been part of market demand.

World Gold Production

(In Million of US Dollars at 35 US Dollars per Fine Ounce)

	1965	1966	1967
United States	58.6	63.1	—
Canada	125.6	114.6	103.7
Africa	—	—	—
South Africa	1,069.0	1,080.8	1,061.6
Ghana	26.7	24.0	26.7
Rhodesia	—	—	—
Congo Dem. Rep. ..	2.3	5.6	—
Latin America	39.8	—	—
Mexico	7.6	7.5	—
Nicaragua	5.6	5.3	5.2
Columbia	11.2	9.8	—
Peru	3.7	3.9	—
Asia	41.7	43.3	—
Japan	18.1	19.4	23.7
Philippines	15.2	15.9	17.1
India	4.6	4.2	3.6
Europe	—	—	—
Oceania	36.2	37.2	—
Australia	30.7	32.0	27.9
World Total	1,440.0	1,440.0	—

(SOURCE: International Financial Statistics).

— Means not available.

Assaying and Refining of Gold and Silver

Some relevant statistical data are given below:—

(Kilograms)

Year	Melting and Assaying		Refining	
	Gold	Silver	Gold	Silver
1965-66 ..	138,56(b)(c)	2,41	57,04(d)	—
1966-67 ..	5,927(e)	29,15	50,52(d)	—
1967-68 ..	6(e)	40,97	55,41(d)	—

(b) Including gold received against 7 per cent Gold Bonds, 1977 and National Defence Fund.

(c) Including gold received against 7 per cent Gold Bonds, 1980 and National Defence Gold Bonds, 1980 and gold received from Alipore Mint.

(d) Including confiscated gold received from Customs and Central Excise Department and State Governments.

(e) Including gold received against National Defence Fund and National Defence Gold Bonds.

(SOURCE: Report on Currency and Finance 1967-68).

Prices of Gold and Silver—Bombay (a)

Year/Month	Gold (b) (Rs. per 10 grams) Spot			Silver (Rs. per kilogram) Spot		
	Highest	Lowest	Average(c)	Highest	Lowest	Average(c)
1965-66	85.00	70.50	77.78	406.00	281.00	314.62
1966-67	92.75	76.00	83.85	385.00	336.00	358.88
1967-68	168.00	146.00	156.97	565.00	346.00	430.09

(a) Including nominal quotations also, for working days.

(b) Relating to 14 carat, quoted from August 28, 1963.

(c) Average of closing quotations

(SOURCE: Report on Currency and Finance 1967-68).

The following table gives the average silver quotations in New York and London from 1963 to 1967 :

	New York Average	London Average (spot)
	Cents	Pence
1963	127.91	110.13
1964	129.30	111.92
1965	129.30	111.58
1966	129.30	111.80
1967	155.00	142.00

GOLD AND SILVER

During the year, the Bombay bullion market witnessed a spectacular boom in silver prices aided by persistent demand for unauthorised exports which became all the more lucrative in the context of the uptrend in international price of the metal, following the decision of the U.S. Treasury on July 14, 1967 to abandon its policy of selling silver at \$ 1.29 per fine oz., and to make further sales only at 'going market prices.' The gold section presented a steady front and remained by far unaffected by the 'gold rush' in the West European markets and the consequent rise in world prices towards the close of the year. However, the decision of the Western Central Bankers, to follow, effective March 17, 1968, a dual price policy for gold induced a mild rise in prices on apprehensions that smuggled gold would become costlier than before.

The demand for gold which had shown a perceptible increase following the removal of purity restrictions on the manufacture of gold ornaments on November 1, 1966 continued unabated and, as a result, gold prices remained steady around the high levels reached earlier. The quotation for standard gold, which became available since July 7, hovered around the level of Rs. 157.50 per 10 grams till end-December and after reacting to Rs. 152.50 by mid-February touched Rs. 158.00 by mid-March. Following the decision of the Western Central Bankers to follow a dual price policy for gold, the price in Bombay rose from Rs. 158 on March 16 to Rs. 168 by March 18, but retreated to Rs. 162 on the very next day and closed for the year at that level. Over the period July 7, 1967, to March 31, 1968, the price of standard gold rose by Rs. 4.50 per 10 grams.

The easy trend in silver noticed in 1966-67 continued through the first quarter of the year but later a rise ensued in the wake of the U.S. Treasury's decision to sell silver only at 'going market prices', which made unauthorised exports of silver more attractive. The rise which until October 1967 was steady developed into a veritable boom in November when the price touched an all-time peak of Rs. 565.00 per kg. Apart from the ruling high prices abroad, the rumours that the Reserve Bank of India would be empowered to purchase silver, that such silver holdings would be treated on par with gold for statutory requirements of currency backing and that, also, the Government would export silver on its own account assisted the spurt in prices.

CAPITAL MARKET

The gilt-edged prices recorded modest gains over the year 1967-68 reflecting the impact of the Bank's policy to create orderly market conditions and rationalise the yield pattern through its open market operations. The equities market, on the other hand, remained depressed during the major part of the year although towards the close of the year signs of revival inequity prices were in evidence following the announcement in the budget for 1968-69, of tax concessions to the corporate sector and the reduction in the Bank Rate on March 2, 1968. There was an unprecedented rise in the consents for capital issues through shares and debentures (excluding bonus and miscellaneous issues) but the revival in new issue activity was quite modest. The demand for loans from the term-lending institutions by the corporate sector declined during the year owing to recessionary conditions in certain sectors of the industry.

THE GILT-EDGED MARKET

In the gilt-edged market, the recovery evinced during 1966-67, became more pronounced during 1967-68. The Reserve Bank's All-India Index of Government and Semi-Government security prices moved up by 2.6 per cent in 1967-68 as against 1.1 per cent in 1966-67. Apart from the comparatively easier conditions in the money market for the greater part of the year under review, the resumption by the Reserve Bank of the open market operations towards the close of July and the stepping up of its buying rates for certain loans imparted strength to the market. The market sentiment was further favourably influenced by the liberalization of monetary policy, mainly the cut in the Bank rate from 6 to 5 per cent on March 2, 1968. Over the year, Reserve Bank's open market operations resulted in net sales as in the preceding year.

The Reserve Bank's All-India Index for Government and Semi-Government securities (base : 1961-62 = 100)

rose from 94.6 at end-March 1967 to 96.3 on March 2, 1968 i.e., on the eve of the Bank rate cut. Thereafter, it moved up to close at 97.1 by end-March, thus showing a rise of 2.6 per cent over the year as compared with 1.1 per cent in 1966-67. The increase was noted both in Central and State Government securities. The index of Government of India securities increased from 94.5 at end-March 1967 to 97.4 by end-March 1968 and that of State Government securities went up from 95.1 to 96.2. In the Central list, the rise in prices was more marked in the long and medium dated securities.

INDUSTRIAL SECURITIES MARKET

The basic trend in the industrial securities market was one of decline during the major part of 1967-68. The equity prices which had ruled generally firm during the greater part of 1966-67 gradually drifted to lower levels during 1967-68. The downtrend which began in February 1967 continued during the year, except for occasional spells of steadiness, and touched the bottom on February 10, 1968. There was a revival thereafter, owing to the optimism arising from the concessions granted to the corporate sector in the Union Budget for 1968-69 and the reduction in the Bank rate from 6 per cent to 5 per cent. Among the fixed-interest bearing industrial securities, while the debentures were steady, the preference shares eased further during the year.

The bearish tendency in equities noticed since February 1967 continued almost uninterrupted till the end of July 1967. During this period, the Reserve Bank's All-India Index of Variable Dividend Industrial Securities (base : 1961-62 = 100) which had declined from 84.0 at the end of February 1967 to 81.1 for the week ended March 25, 1967, further dropped to 75.4 on July 22, 1967.

The downtrend was arrested towards the end of July and the index recovered partially from 75.4 on July 22, 1967 to 77.2 on August 12, 1967. This optimistic trend, however, proved short-lived. From mid-August, the markets turned bearish on reports of a package of measures by the Government to freeze prices, wages and dividends (discounted in October) and the ordinance of September 14, raising the annuity deposit rates. From November 1967 the share prices again started declining. From mid-February, however, a revival in the market sentiment became discernible on anticipations of a favourable budget; this sentiment was strengthened by the Union Budget for 1968-69 which provided for a reduction in sur-tax on companies from 35 per cent to 25 per cent, abolition of excesses dividend tax and annuity deposit scheme, the grant of exemption from tax for the first Rs. 500 on dividend income, and several incentives designed to promote industrial expansion and exports. The reduction in Bank Rate from 6 to 5 per cent on March 2, 1968 provided a further impetus to this trend. The reports of substantial orders for railway wagons by the U.S.S.R. and other East European countries also aided the market sentiment as was reflected in the Reserve Bank's All-India index of Variable Dividend Industrial Securities which moved up from 73.2 on February 10 to 74.6 on February 24, and thereafter rose further from 75.6 on March 2 to 79.0 on March 9. Subsequently, however, prices receded temporarily owing to reports of growing pressure on the British pound sterling and the U.S.

dollar along with the rush for gold in the world's free markets and the possible repercussions on the world economy. The equity price index declined from 79.0 on March 9 to 77.5 on March 30, 1968. Over the year 1967-68, the index of equity prices registered a decline of 4.4 per cent as against an increase of 6.9 per cent in 1966-67. Region-wise the largest decline was recorded by the Ahmedabad market (6.7 per cent) followed by Calcutta (6.5 per cent), Madras (5.0 per cent) and Bombay (3.2 per cent). Delhi market, however, recorded a nominal rise of 0.6 per cent.

As regards fixed interest-yielding industry securities, the easiness noticed since 1964-65 continued in 1967-68 also. The all-India index of preference shares (base: 1961-62 = 100) declined from 88.6 at the close of March 1967 to 85.7 at the close of March 1968 — a fall of 3.3 per cent as compared with a fall of 2.5 per cent in 1966-67. The index for debentures showed a fractional decline from 91.8 in 1966-67 to 91.7 in 1967-68.

During the year, the average yield (gross) on variable dividend industrial securities rose from 7.71 per cent to 8.22 per cent, while that on preference shares rose from 9.38 per cent to 9.83 per cent and on debentures from 7.97 per cent to 8.40 per cent.

From December 1946, the Reserve Bank of India started constructing indices of security prices. These indices (All-India) reveal the following trend:—

Average of Weeks		Government & Semi-Government Securities	Industrial Securities		Banks	Insurance	Investment Trusts	Electricity Generation and Supply	Shipping and other Transport	Tea Plantations
			Fixed Dividend	Variable Dividend						
		1	2	3	4	5	6	7	8	9
Base : 1961-62 = 100										
1964-65	.. ..	98.2	101.5	86.1	96.8	107.0	88.3	110.0	108.5	84.7
1965-66	.. ..	94.6	94.4	76.7	96.4	116.3	80.2	107.6	95.8	79.5
1966-67	.. ..	94.3	90.0	80.2	96.3	136.2	85.9	104.9	115.3	80.8
1967-68	.. ..	95.5	87.1	76.7	89.8	131.9	85.3	104.7	136.1	79.8

Average of Weeks				Cotton Textiles	Jute Mills	Coal	Mining	Iron and Steel	Sugar and Breweries	Chemicals	Paper	Cement
				10	11	12	13	14	15	16	17	18
Base : 1961-62 = 100												
1964-65	..	..	..	81.8	90.5	80.2	64.1	99.4	86.9	69.9	87.5	92.6
1965-66	..	..	..	69.8	70.6	71.4	49.6	95.9	80.0	59.2	74.8	85.6
1966-67	..	..	..	66.5	61.8	65.8	46.4	105.3	77.7	67.0	77.9	98.0
1967-68	..	..	..	61.5	48.6	53.2	37.5	106.3	74.1	64.4	76.0	101.4

CAPITAL ISSUES

New issues actively improved during 1967-68. In contrast to the decline in the previous year, capital issues through both prospectuses and rights increased during the year, largely on account of equity issues, though issues of preference shares and debentures also recorded increases. The bonus issues declined sharply this year in contrast to the substantial increase noted last year following the abolition of bonus issue tax on the companies and of the national capital gains tax on bonus shares in the hands of shareholders.

Capital issues through prospectuses were higher during 1967-68 than in the previous year, mainly on account of the substantial rise in equity issues and also due to increases in preference shares and debenture issues. The share of the foreign collaborators in the capital issued through prospectuses was larger during the year while that of the promoters showed a decline. The rate of dividend offered on majority of preference issues was maintained at the previous year's level of 9.5 per cent though in the case of a few issues it was 10 per cent. The rate of interest offered on debentures remained unchanged at 7½ per cent.

Table I: Capital Consents and Capital Raised by Non-Government Companies

(Rs. crores)

Year	CAPITAL CONSENTS/NO OBJECTION CERTIFICATES			CAPITAL RAISED		
	Shares (other than bonus) and debentures	Bonus shares	Total	Shares (other than bonus) and debentures	Bonus shares	Miscellaneous loans, etc.
	1	2	3	4	5	6
1966.. ..	67.0	147.0	176.9	72.4	84.8	19.7
1967.. ..	150.6	47.8	168.0	81.4	83.9	2.7

Public response to capital issues continued to be selective. As in the previous year a majority of the issues were undersubscribed; the promoters, therefore, had to rely heavily on institutional support.

Available data relating to consents/no objection certificates during 1967 indicate that the consents for fresh capital issues through shares and debentures (excluding bonus and miscellaneous issues) at Rs. 150.6 crores were more than twice the amount consented to during the preceding year (Rs. 67 crores). The consents for the initial issues by new companies amounted to Rs. 52.3 crores and 'further' issues by existing companies to Rs. 98.3 crores. Inclusive of bonus shares and miscellaneous issues total consents/no objection certificates granted for the issue of capital by non-Government public limited companies were lower at Rs. 219.3 crores in 1967 than in 1966 (Rs. 253.0 crores), largely because of the decline in consents for bonus issues.

Bonus issues declined sharply from Rs. 147.0 crores in 1966 to Rs. 47.8 crores in 1967.

Total capital (excluding bonus and miscellaneous issues) raised by non-Government companies against consents and under Exemption Order increased from Rs. 72.4 crores in 1966 to Rs. 84.4 crores in 1967, bulk of the rise being in equity and debenture issues which increased from Rs. 49.7 crores and Rs. 15.3 crores, respectively, in 1966 to Rs. 53.0 crores and Rs. 20.9 crores, respectively in 1967. Capital raised through preference issues during 1967 at Rs. 7.5 crores was around the same level as in the preceding year (Rs. 7.3 crores) but the capital raised through bonus issues was at a slightly lower level of Rs. 83.9 crores as against Rs. 84.8 crores in the previous year. The miscellaneous 'loans' registered a sharp decline from Rs. 19.7 crores in 1966 to Rs. 2.7 crores in 1967.

Control of Capital Issue

(Non-Government Companies only)

(Rupees in Crores)

YEAR	APPLICATIONS		CONSENTS										
			Total		Initial		Further Others		Further Debenture		Further Bonus		
	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	
1965	..	166	167.79	154	166.50	43	41.42	40	23.83	18	21.02	24	4.93
1966	..	796	278.70	785	277.54	28	24.84	46	23.13	14	18.06	658	147.00
1967	..	389	104.17	379	102.99	5	17.86	25	24.26	2	8.10	341	47.85

New Company Registrations in 1966-67

There were 1,039 new companies registered in the country during 1966-67 against 1,341 in 1965-66.

Statewise Registrations

States	1964-65			Total	1965-66			Total	1966-67			Total
	Public	Private			Public	Private			Public	Private		
Andhra Pradesh	11	52	63		3	45	48		5	34		39
Assam, Manipur & Tripura	2	19	21		—	20	20		—	7		7
Bihar	3	16	19		6	11	17		5	14		19
Gujarat	5	40	45		7	58	65		6	55		61
Maharashtra	31	235	266		23	261	284		11	216		227
Kerala	3	30	33		2	25	27		1	19		20
Madhya Pradesh	2	14	16		5	8	13		2	8		10
Mysore	10	24	34		10	37	47		6	41		47
Orissa	—	11	11		—	5	5		—	6		6
Punjab, Haryana & Himachal Pradesh	1	50	51		3	43	46		6	52		58
Rajasthan	7	14	21		1	13	14		—	5		5
Tamil Nadu & Pondicherry ..	29	119	148		20	77	97		12	88		100
Uttar Pradesh	6	50	56		8	49	57		2	43		45
West Bengal	52	306	358		29	336	365		19	227		246
Delhi	14	192	206		13	191	204		6	132		138
Goa	4	13	17		2	30	32		1	10		11
TOTAL	180	1,185	1,365		132	1,209	1,341		82	957		1,039

NOTE : Figures relate only to applications disposed of during the period and not to applications actually received during the period.

FINANCE CORPORATIONS

Under the Industrial Finance Corporation Act, a Corporation was established on July 1, 1948 to provide medium and long-term finance to public limited companies and co-operative societies registered in India, including the acceding States, and engaged in the manufacture or processing of goods or in mining or in the generation or distribution of electricity or any other form of power.

Seventeen States have established State Financial

Corporations — Punjab, Haryana, Himachal Pradesh, Maharashtra, West Bengal, Kerala, U.P., Rajasthan, Assam, Bihar, Madhya Pradesh, Andhra, Orissa, Mysore, Jammu and Kashmir, Tamil Nadu and Gujarat. In addition, Delhi also has a financial corporation.

Besides the State Financial Corporations, there are other State Corporations and All India Corporations. For details see under the articles "State Corporations" and "All India Corporations".

IMPORT AND EXPORT TRADE

General Indices of Exports and Imports (1958 = 100)

	1965-66	1966-67*	1967-68
Quantity Index:			
Exports ..	124	119	122
Imports ..	154	149	166
Price Index:			
Exports ..	113	169	169
Imports ..	104	150	136

* These indices are based on the averages of index numbers for the ten months from June 1966 to March 1967. Consequent to devaluation of the Indian rupee on June 6, the figures for April and May have not been taken into account as they are not comparable with the post devaluation figures.

BALANCE OF PAYMENTS

India's balance of payments position has been described in the Report on Currency and Finance (1967-68) of the Reserve Bank of India as follows:

The foreign exchange situation, which had been exceedingly difficult in 1966-67, was relieved to some extent in 1967-68 as the result of debt relief, larger utilisation of foreign aid, better performance of exports and drawings on the I.M.F. Over the year, the foreign exchange reserves went up by (the equivalent of) \$80 million to \$718 million at the end of March 1968, in 1966-67 the reserves had

gone up marginally by \$12 million to \$638 million, wholly due to large drawings on the I.M.F.

Overall Trends: The discussion in the following paragraphs relates to trends during the calendar year 1967, as detailed balance of payments data for the financial year as a whole are not yet available. During the year 1967, the reserves increased by \$55 million whereas in the preceding year they had moved up by only \$10 million. However, if purchases and repurchases from the I.M.F. debt relief provided by the I.B.R.D., the depreciation in sterling assets and the additional gold subscription paid in February 1966 are excluded, the reserves would show a fall of \$52 million during each of the two years.

While the overall payments position in 1967 (calendar year) as indicated by the movement in reserves, remained the same as in 1966, there were noticeable variations in the major components of the balance of payments. Over the year 1967, the current account deficit widened by \$278 million to \$1,121 million, owing mainly to the sharp reduction in the surplus on account of invisible transactions from \$225 million to \$13 million. The adverse trade balance which worsened by \$66 million to \$1,134 million, following a larger increase in imports than in exports, resulted in a larger deficit on current account. The situation was aggravated further by "errors and omissions", comprising unidentified transactions, which resulted in a net outflow of \$124 million as against a net inflow of

\$51 million during the previous year. Taking the current account and 'errors and omissions' together, the total deficit amounted to \$1,245 million which was \$453 million higher than that recorded last year. This was financed by a net inflow of \$1,314 million, on capital account, comprising mostly drawings on external assistance loans and on the I.M.F.; this, in turn, resulted in an accretion of \$69 million to the reserves. In 1966, the net inflow from capital transactions exceeded the total deficit by a much smaller amount, leading to a rise in the reserves of \$10 million.

IMPORTS

Over the year 1967, the aggregate import bill increased by \$175 million or 7 per cent to \$2,774 million. The liberal import policy which was initiated in 1966 immediately after the devaluation of the rupee was continued in 1967. Facilitated by the flow of non-project assistance, imports of current inputs required by the industry went up by \$292 million (or 7 per cent) but the increase was not fully reflected in the aggregate import bill, because imports of food and raw jute fell owing to improved domestic output. Compared with 1966, the entire increase in the aggregate import bill was financed by external assistance.

EXPORTS

Exports in 1967 amounted to \$1,640 million, the increase over the year being \$109 million or 7 per cent. While in part this was only a recovery from the exceptionally low level of 1966, it also reflected the impact of various promotional measures undertaken by the Government during the year, such as adjustments in export duties, enlargement of cash assistance, strengthening of credit arrangements for exports, and provision of indigenous raw materials at international prices for certain selected export products. Additionally, the improved supply situation in respect of some of the items, such as tea, tobacco, coffee and iron and steel also seem to have contributed to the better performance noticed during the year.

A little more than half of the increase that materialised over the year reflected the improvement in the exports of traditional items, mainly tea (\$44 million), tobacco (\$20 million) and raw cotton (\$6 million). But a few other traditional items suffered a setback and these included spices (\$8 million), cashew kernels (\$5 million) and oil-cakes (\$8 million). As regards non-traditional items, a large number of them registered an improvement, the more significant among them being iron and steel (\$43 million), ores other than mica, manganese and iron (\$22 million), electrical apparatus (\$4 million), transport equipment (\$4 million), non-ferrous metal manufactures (\$4 million), fish and fish preparations (\$5 million) and coffee (\$3 million). Among the remaining non-traditional items, there was a decline in the exports of leather manufactures (\$9 million), iron ore (\$10 million), manganese ore (\$9 million) and sugar (\$11 million).

Details of imports and exports for some land-marking years from 1955-56 up to 1967-68 are given at the end.

DEVELOPMENTS IN TRADE POLICY

The trade policy during the year continued to be production oriented with greater emphasis on cost reduction and diversification of products. Besides modifying the various export promotion measures taken in the preceding year after the devaluation of the rupee in 1966, a few fiscal and other measures were announced during the current year mainly with a view to increasing the marketing competence of export products particularly the new ones. The import liberalisation policy followed after the

devaluation in respect of 59 priority industries was continued. The licensing procedure was, however, simplified so as to enable the priority industries to obtain licences as and when required.

The export duties on a number of items were reduced with a view to increasing the competitiveness of Indian goods. The main duty reductions were effected partly to offset the exchange rate adjustments made by India's important competitors in the foreign markets following the devaluation of sterling. The duties on jute manufactures, tea and coir yarn were reduced while those on leather were abolished. The rates of cash assistance on a number of selected non-traditional products with a substantial export potential were also enhanced during the year. A new feature of the cash assistance scheme was the linking of additional assistance to export performance. The registered exporters of specific items would be eligible to claim additional cash assistance varying from 2.5 per cent to 10 per cent for their total exports provided the f.o.b. value of their exports during the twelve months from March 1, 1968 to February 28, 1969 exceeded by at least 10 per cent the level of the preceding twelve months. With a view to encouraging exploration of export markets, the Central Government budget for 1968-69 provided an Export Market Development Allowance to the tax payers (other than foreign companies) at the rate of one and one-third of the revenue expenditure incurred for that purpose. At the same time, the rules for blanket release of foreign exchange to exporters were liberalised.

In conformity with the export promotion policy and consistent with the requirements of the economy there was progressive relaxation during the year in the control over exports of certain items while several other items were brought under control.

The Export-Import Advisory Council whose term expired on December 31, 1967 was replaced by an Advisory Council on Trade with effect from January 1, 1968. The Council would meet twice a year and would mainly consider problems relating to the expansion of exports, the regulation on imports, the operation of import and export (trade controls, the working of commercial services with particular reference to export marketing and export assistance and the organisation and expansion of the export sector of the economy.) The Indian Institute of Foreign Trade continued to pursue its varied activities covering Training, Marketing Research and General Research.

The State Trading Corporation (STC) continued to play an important role in the diversification of India's export trade. So far it has introduced 108 new items of export in 41 countries. The export programme of the Corporation falls into five main groups (1) railway equipment, (2) engineering goods, including machine tools and manufactures of small industries, (3) chemicals, drugs, and pharmaceuticals, (4) consumer goods including leather footwear and components, wigs, wiglets and other human hair, woollen knitwear and textiles and (5) agricultural and marine products. The total volume of direct trade handled by the STC in 1967-68 aggregated Rs. 160 crores (provisional). Although the value of overall exports handled by it during the year under review is not yet available, it is likely to be around Rs. 35 crores as compared with Rs. 31 crores in 1966-67. The Corporation made further progress in the export of railway stock extending its sales to the countries like the U.S.S.R., Thailand, Ceylon, Burma and South Korea.

The Mineral and Metals Trading Corporation (MMTC) continued to expand its trading activities during the year under review. Exports of iron ore by the MMTC during January-September 1967 were 6.20 million tonnes valued

at Rs. 39.0 crores as against 5.77 million tonnes valued at Rs. 26.6 crores during the corresponding period of 1966. Exports of manganese ore by the Corporation during 1967 (January-September) were, however, lower at 0.73 million tonnes valued at Rs. 8.1 crores as compared with 0.91 million tonnes valued at Rs. 8.6 crores during the corresponding period of 1966. The decline in this case was mainly due to the dislocation following the Suez crisis and the general recession in the steel industry in Western Europe and the U.S.A.

The *import policy* for the year 1967-68 announced on May 1, 1967, was made need based and production-oriented and provided for the continuation of priority treatment for 59 specified industries. The licensing procedure was simplified with a view to enabling these industries to meet their import requirements on a continuing basis. The priority industries and small-scale industries producing the same goods would not be subject to any fixed dates or periods for submitting applications for import licences for raw materials, components and spares. The existing units in these industries could apply for licences for raw materials, components and spares, covering approximately six months requirement, after utilising previous set of licences by opening letters of credit to the extent of 90 per cent of the value of licence or by actual licence. For industries, not included in the priority list, the import licensing procedure was similarly simplified but in their case the issue of additional licences was subject to exchange availability.

Among the commodities which were placed under the open general licence introduced after the devaluation of the rupee in June 1966 for the import of raw materials required by certain export industries (see Report on Currency and Finance, 1966-67, page No. 127), jute was taken off after March 31, 1967. Imports of spare parts of certain essential machinery which had been freely licensable under aid in the previous year were placed under special general licence and it was decided to consider applications for licences for imports of these parts from rupee payment countries. However, banned or restricted items were not covered by this facility.

Several items were taken off the list of permissible items for imports in view of their availability from domestic production.

The Union Budget for 1968-69 stepped up the import duties on (i) whisky, brandy and a few other alcoholic drinks, (ii) cloves, cassia and cinnamon, (iii) chemical (excluding those required for manufacture of drugs and medicines), plastics, synthetic resins and miscellaneous items not otherwise specified in the Customs Tariff (excluding carbon black, red phosphorous and other goods already exempted), (iv) steel ingots and alloy steels (as are not used in the manufacture of small tools) and (v) high silicon steel sheets other than grain-oriented).

Tariff Commission

In 1967-68, the Tariff Commission completed three price inquiries, relating to (i) antimony, (ii) raw rubber and (iii) coal/coke, washed coal and washery by-products.

As regards tariff inquiries, the Commission could not complete the inquiry regarding continuation of protection to dyestuff industry which was due to expire on December 31, 1967. Pending the completion of inquiry, the Commission recommended the extension of protection to dyestuff industry, by another year i.e. upto December 31, 1968, which was accepted by the Government.

In connection with the price inquiries, the Government accepted the recommendations of the Commission regarding the fixation of fair selling price for antimony. For raw rubber the recommendation regarding the price to be retained by the growers was also accepted by the Government. However, the Government considered that small growers of rubber needed some immediate support to improve their economic viability and therefore recommended cash subsidy to small growers. The Government also decided to appoint a committee to study the economics of small holdings of rubber and to suggest measures to improve the efficiency and to contribute to the stability of the sector. The recommendation regarding the reduction of cess on rubber was not accepted by the Government, while that relating to bringing the rehabilitation allowance given for replantation in Kanyakumari District, on par with that in the rest of the Tamil Nadu, was referred to the Government of Tamil Nadu.

TRADE ARRANGEMENTS AND TRADE AND PAYMENTS AGREEMENTS

Trade agreements and trade and payments arrangements continued to play a significant role in expanding India's foreign trade and forging closer economic ties. Apart from the tripartite agreement with the U.A.R. and Yugoslavia, fresh trade agreements were entered into during the year with Brazil, Finland, Mongolia and the Philippines. Earlier trade agreements with some of the other countries were extended for further periods. In accordance with the existing trade and payments agreements with the East European and a few other countries annual trade agreements with this group of countries were also made during the year.

With a view to strengthening mutual economic co-operation, increasing trade exchanges among the participating countries and contributing to the development of inter-regional trade among developing countries, a five-year Trade Expansion and Economic Co-operation Agreement between India, the U.A.R. and Yugoslavia was concluded during the year. The Agreement provides that each of the participating countries would accord special tariff concession of 50 per cent to imports from the other two countries in respect of a 'Common List' of items which includes over 500 products. The reduction would be effected in two stages; a 40 per cent cut will be effected in the Most-Favoured Nation clause made in the twelve months beginning April 1, 1968 and a further 10 per cent cut thereafter. In August 1967, India also concluded an agreement with Ceylon to provide Suppliers' credit of Rs. 5 crores to the latter to enable it to import Indian goods such as electrical and telecommunication equipment, industrial machinery and machine tools, commercial vehicles, earth moving machinery and construction equipment. Fresh trade agreements were signed with Brazil, Finland, Mongolia and Philippines in order to develop and strengthen trade and economic relations with these countries. The existing agreements with France, Greece, Iran, Jordan, Morocco, Sudan, and Tunisia were extended for further periods. Annual trade arrangements with Iraq and Iran were finalised within the framework of the agreements with these countries.

Trade agreements with Bulgaria, Czechoslovakia, Hungary, Poland, the U.A.R. and the U.S.S.R. were also finalised within the framework of the existing trade and payments agreements with these countries, while trade agreements with Afghanistan, East Germany (GDR), North Korea, and Yugoslavia were extended for further periods. An important feature of these trade

arrangements is the provision made for augmenting trade turnover between the participant countries by widening the range of items as well as increasing the production requirements of their economies. Accordingly, non-traditional items in the engineering and chemical categories and manufactured and semi-manufactured goods

continued to figure on an increasing scale in India's export list in the trade arrangements during the year.

Further, a supplementary to the technical co-operation agreement was signed with West Germany providing for technical assistance for identifying Indian engineering products for West German markets.

TRENDS IN INDIA'S FOREIGN TRADE

(In crores of post-devaluation Rs.)

				Imports	Exports	Balance	Exports as per cent of Imports
1955-56	..	..	..	1,219.91	959.38	- 260.53	78.64
1960-61	..	..	..	1,767.22	1,011.65	- 755.58	57.25
1964-65	..	..	..	2,125.53	1,286.16	- 839.37	60.51
1965-66	..	..	..	2,219.26	1,269.37	- 949.90	57.20
1966-67	..	..	..	2,077.99	1,156.53	- 021.46	55.65
1967-68	..	..	..	1,950.47	1,197.04	- 753.43	61.37

TRENDS IN INDIA'S FOREIGN TRADE : DATA FOR ALL REGIONS AND PRINCIPAL COUNTRIES

(In crores of post-devaluation Rs.)

Sr. No.	Region/Country	1966-67		1967-68	
		Imports	Exports	Imports	Exports
I	Africa	92.76	76.99	94.62	70.18
1	U.A.R.	22.79	26.79	26.78	21.53
2	Others	69.96	50.20	67.85	48.65
II	North America	853.06	250.98	869.28	237.20
1	Canada	91.22	30.98	97.77	29.77
2	U.S.A.	761.83	219.99	771.50	207.43
III	Latin America	15.77	9.94	13.86	5.45
IV	Other American Countries	0.58	2.43	2.20	1.91
V	ECAFE	336.85	243.17	287.24	270.85
1	Japan	107.42	107.45	106.90	135.92
2	Australia	57.99	26.13	64.96	27.98
3	Malaysia†	12.49	10.49	9.30	6.91
4	Others	158.96	99.10	106.09	100.03
VI	Other Asian and Oceanic countries, Antarctic and Arctic Regions	18.28	41.52	39.70	44.57
VII	East Europe	231.89	227.28	203.01	225.94
1	Czechoslovakia	33.50	28.58	27.34	29.17
2	U.S.S.R.	115.52	124.89	95.82	121.79
3	Others	82.85	73.81	79.86	74.98
VIII	European Common Market	296.87	89.24	251.86	89.31
1	West Germany	162.86	26.04	143.16	22.28
2	Italy	39.92	15.49	34.07	17.81
3	Others	94.09	47.73	74.63	49.22
IX	European Free Trade Area	210.62	215.62	203.89	243.03
1	U.K.	165.48	202.41	157.86	229.03
2	Others	45.13	13.21	46.02	14.00
X	Other European Countries	5.51	9.69	6.66	10.24
	Total	2,062.18	1,166.85	1,972.38	1,198.67

† Relates to Malaya and Singapore in 1960-61, to Malaysia including Singapore in 1965-66 and Malaysia excluding Singapore in 1966-67 and 1967-68.

NOTE: 1. Slight discrepancies in figures are possible due to rounding and conversion of data for 1960-61 and 1965-66 and April and May 1966 into post-devaluation rupees.
2. Totals given here may differ from those in Table I which takes into account latest revisions.

INDIA'S FOREIGN TRADE : EXPORTS OF PRINCIPAL COMMODITIES

(In crores of post-devaluation Rs.)

Sr. No.	Group/Commodity	1965-66	1966-67	1967-68
I	<i>Food and Live Animals</i>	379.31	356.49	362.15
1	Cashew Kernel	43.17	45.99	43.03
2	Coffee	20.39	15.96	18.18
3	Tea (Black)	161.78	159.50	179.12
4	Pepper (Black)	17.10	12.57	12.98
5	Oil Cakes	54.58	50.53	45.47
6	Others	82.28	71.96	63.37
II	<i>Beverages and Tobacco</i>	34.17	22.80	35.60
1	Tobacco (Unmanufactured)	30.85	21.65	34.85
2	Others	3.32	1.15	0.75
III	<i>Crude materials, Inedible except Fuels</i>	212.77	209.13	194.42
1	Hides and Skins (Raw)	15.05	16.14	7.39
2	Wool and other Animal Hair	11.75	8.07	6.58
3	Cotton (Raw and Waste)	20.62	17.53	19.40
4	Mica	17.76	14.30	15.04
5	Iron Ore (Including Concentrates)	62.02	70.20	74.78
6	Manganese Ore (Including Concentrates)	17.41	14.37	11.10
7	Lac	6.73	5.67	5.15
8	Others	61.45	62.82	54.98
IV	<i>Minerals, Lubricants and related materials</i>	14.67	12.66	9.15
V	<i>Animal and Vegetable Oils and Fats</i>	7.17	3.10	4.16
1	Vegetable Oils	6.45	2.86	3.96
2	Others	0.72	0.24	0.20
VI	<i>Chemicals</i>	17.50	14.99	15.74
VII	<i>Manufactured Goods</i>	540.84	495.63	510.94
1	Leather	44.45	61.04	53.22
2	Cotton Textiles	99.72	77.09	79.44
3	Jute Textiles	277.86	240.20	225.67
4	Woollen Carpets and Rugs	7.12	8.06	9.54
5	Art Silk Manufactures	2.00	0.90	0.58
6	Cement	0.65	0.20	0.57
7	Iron and Steel	19.52	25.57	54.84
8	Others	89.51	82.58	87.11
VIII	<i>Machinery and Transport Equipment</i>	17.63	16.30	21.79
Grand Total		1,269.37	1,166.85	1,198.67

NOTE: 1. Grand total includes miscellaneous manufactured articles and miscellaneous transactions and commodities and hence differs from the sum of the groups/items given above.
 2. The figure for total exports given here may not tally with that in Table I which takes into account latest revisions.

The foreign trade position for first nine months (April to December 1968) of the financial year 1968-69 was as

below: Imports Rs. 1,368 crores; Exports Rs. 1,023 crores.
 Balance of payments — Rs. 345 crores.

INDIA'S FOREIGN TRADE : IMPORTS OF PRINCIPAL COMMODITIES

(In crores of post-devaluation Rs.)

Sr. No.	Group/Commodity	1965-66	1966-67	1967-68
I	<i>Food and Live Animals</i>	557.89	680.98	579.14
1	Wheat and Rice	483.14	479.19	433.23
2	Cashewnuts	23.73	23.03	25.08
3	Spices	0.95	0.32	0.94
II	<i>Beverages and Tobacco</i>	0.88	0.53	1.72
	Tobacco (unmanufactured)	0.03	0.24	1.33
III	<i>Crude Materials, Inedible except Fuels</i>	193.94	203.67	191.33
1	Hides and Skins	3.72	1.78	1.29
2	Copra	9.86	4.20	4.42
3	Crude rubber	7.72	11.68	4.39
4	Cotton (raw)	72.79	59.88	83.48
5	Jute (raw)	14.41	20.57	1.77
6	Wool (raw)	8.07	11.80	11.82

INDIA'S FOREIGN TRADE: IMPORTS OF PRINCIPAL COMMODITIES

(In crores of post-devaluation Rs.)

Sr. No.	Group/Commodity	1965-66	1966-67	1967-68
IV	<i>Mineral Fuels, Lubricants and related materials</i>	107.80	65.41	74.94
1	Petroleum crude and partly refined	54.94	37.75	59.73
2	Petroleum products	52.55	27.50	15.10
V	<i>Animal and Vegetable Oils and Fats</i>	21.46	14.75	33.44
VI	<i>Chemicals</i>	165.41	196.83	268.63
1	Chemical elements and compounds	56.50	54.06	78.04
2	Dyeing and tanning materials	10.37	8.92	7.74
3	Medical and Pharmaceutical Products	13.75	17.42	17.52
4	Fertilizers	61.40	89.78	134.40
VII	<i>Manufactured Goods</i>	340.85	247.30	253.70
1	Paper and paper boards	21.24	21.69	17.64
2	Art silk yarn and thread	7.80	6.84	3.72
3	Iron and Steel	154.31	97.57	106.16
4	Non-ferrous metal	107.85	55.59	88.48
5	Metal manufactures	28.63	17.28	14.11
VIII	<i>Machinery (other than Electric)</i>	525.94	409.20	335.96
IX	<i>Electric Machinery</i>	138.34	105.93	83.95
X	<i>Transport Equipment</i>	111.16	62.22	76.32
XI	<i>Miscellaneous Manufactured Articles</i>	29.45	23.53	27.65
	Total	2,219.28	2,062.18	1,972.38

NOTE: 1. Grand total includes miscellaneous commodities and transactions and as such differs from the sum of groups/items given above.
 2. The figure of total imports given above may not tally with that in Table I, which takes into account latest revisions.

MONEY SUPPLY

THE monetary trends during 1967-68, by and large, reflected the overall underlying trends in the economy as a whole. During the preceding two years, substantial liquidity built up against the background of static real income created severe pressure on prices. However, during 1967-68, the rate of expansion in monetary resources (comprising currency with the public and aggregate deposits with banks) was lower, and with a spurt in real income, the pressure on prices eased.

The rate of expansion in money supply with the public, which had slowed down during 1966-67 to 9.3 per cent

from 11 per cent in 1965-66, decelerated further to 8.1 per cent during 1967-68. The actual expansion in 1967-68 amounted to Rs. 401 crores compared to Rs. 420 crores in 1966-67. The expansion in money supply, as in the previous year, was more marked in deposit money (Rs. 223 crores) than in currency component (Rs. 178 crores). The expansion in total monetary resources at Rs. 644 crores during 1967-68 was smaller than in the previous year (Rs. 681 crores).

The constituents of money supply and the main factors responsible for its variations are indicated in the following table:

VARIATIONS IN MONEY SUPPLY—FINANCIAL YEAR

(Crores of Rupees)

Item	1966-67	1967-68
1. Currency with public	+ 163	+ 178
2. Deposit Money	+ 257	+ 223
3. Money supply	+ 420	+ 401

Factors Affecting Money Supply

A. Net bank credit to Government sector	+ 313*	+ 226
B. Net Bank credit to private sector	+ 205	+ 192
C. Net foreign exchange assets	- 16†	+ 17
D. Government's net currency liabilities	+ 23	+ 5
E. Net non-monetary liabilities of the Banking system (increase—)‡	- 105	- 39

* Excluding the effect of revaluation of certain assets of the Reserve Bank following the devaluation of the rupee.

† Ignoring the effect of revaluation of foreign assets of the Reserve Bank following devaluation.

‡ Comprising mainly capital and reserves and the difference between other liabilities (mainly bill's payable, accrued profits etc.) and other assets (such as premises, furniture, debit balances under branch adjustments and items in course of collection).

SEASONAL TRENDS

While the contraction in money supply during 1967 slack season (May-October) was smaller, the expansion in 1967-68 busy season (November-April) was larger than in the previous season. During 1967 slack season money supply with the public showed a contraction of Rs. 63 crores—about half of that in the 1966 slack season, which was attributed to smaller decline in net bank credit to private sector (Rs. 146 crores as against Rs. 205 crores in the previous slack season). The 1967-68 busy season which commenced against the background of a relatively large increase in agricultural output, has recorded the largest ever expansion in money supply of Rs. 542 crores as against Rs. 456 crores in the previous busy season.

This expansion stemmed mainly from the record expansion of net bank credit to private sector at Rs. 410 crores (Rs. 358 crores in the 1966-67 busy season) and a rise of Rs. 110 crores in net foreign exchange assets of banks as against only Rs. 8 crores in the previous busy season. The sizable increase in net foreign exchange assets this year reflects net drawings from the IMF, debt relief provided by some Consortium members, improvement in exports and continued low level of foreign exchange payments for imports. The rise of Rs. 66 crores in net bank credit to Government, on the other hand, was less than half of that witnessed in the 1966-67 busy season.

NATIONAL INCOME

ACCORDING to tentative estimates, the real national income of India (at 1960-61 prices) advanced by 10.2 per cent to Rs. 173 billion in 1967-68 from Rs. 157 billion in 1966-67.

The per capita real income has increased by 7.3 per cent in 1967-68.

The real national income has risen by 28.2 per cent between 1960-61 and 1967-68.

The national income at current prices was of the order of Rs. 24,157 crores in 1966-67 which is higher by 14.7 per cent over the corresponding estimate of Rs. 21,064 crores for 1965-66. Between 1960-61 and 1966-67 the national income at current prices has risen by 79.6 per cent.

The per capita income at current prices was Rs. 481.5 in 1966-67 as against Rs. 430.1 in 1965-66, showing a gain of 12.0 per cent which is due entirely to the general rise in the price level.

According to rough estimates the real national income is expected to rise by about 6 per cent in 1968-69 over

the previous year. The rise in real per capita income for 1968-69 should be roughly 4.2 per cent.

In 1966-67 (current prices) share of agricultural sector as a whole was nearly half (47.9 per cent) of the income originating in all sectors together. The mining and manufacturing sector with a share of 20.7 per cent made the second biggest contribution. The services sector accounted for as much as 15.9 per cent and the trade, transport and communications for 15.5 per cent.

The pattern of incomes generated in different sectors has not changed significantly over the years.

During the post-independence period as a whole, the annual growth rate of the Indian economy has been of the order of 3.5 per cent. Allowing for the population growth rate of 2 per cent per annum on an average, the long-term rate of increase of real per capita income works out at about 1.5 per cent per annum.

Table below shows the derivation of gross national product at market prices (GNP) for the year 1960-61 to 1965-66.

ESTIMATES OF INDIA'S GROSS NATIONAL PRODUCT (AT CURRENT PRICES) 1960-61 TO 1965-66.

(Rs. Crores)

Year	Net domestic product at factor cost	Net factor income from abroad	Net national product at factor cost	Indirect taxes less subsidies	Net national product at market prices	Allowance for depreciation	Gross national product at market prices
	1	2	3	4	5	6	7
1960-61	13,525	— 72	13,453	948	14,401	736	15,137
1961-62	14,413	— 98	14,315	1,080	15,395	810	16,205
1962-63	15,287	—108	15,179	1,265	16,444	930	17,374
1963-64	17,679	—116	17,563	1,566	19,129	991	20,120
1964-65*	20,572	—148	20,424	1,784	22,208	1,100	23,308
1965-66*	21,228	—164	21,064	2,010	23,074	1,199	24,273

* Preliminary estimate.

SOURCE: *Ibid.* Table 2, page 2.

FOREIGN EXCHANGE CONTROLS

THE par value is Indian Rupees 7.50 = US\$1. All transactions in foreign exchange must be conducted through authorised dealers, whose dealings with the general public must be effected as follows: in sterling, at rates fixed by the Foreign Exchange Dealers' Association; in other currencies, at rates based on the fixed rates for sterling and the London market rates for sterling against the other currency concerned. Authorised dealers are permitted to cover their requirements of foreign currencies in the London market, and to cover their permitted transactions in certain currencies against sterling, rupees, or any one of these currencies, either spot or forward for periods not exceeding six months, with authorised banks in any country outside the Bilateral Account group.

ADMINISTRATION OF CONTROL

Exchange control is administered by the Reserve Bank of India, in accordance with the general policy laid down by the Indian Government in consultation with the Reserve Bank. Much of the routine work of exchange control is delegated to certain commercial banks, which act as authorised dealers permitted to buy and sell foreign exchange for specified purposes under regulations laid down by the Reserve Bank.

DEVELOPMENT IN EXCHANGE CONTROL

In April 1967, the amount of exchange to be released to students going to the U.K. and the continent of Europe was raised from £ 600 per annum, inclusive of fees, to £ 600 per annum plus the actual fees. Further, the duration for which exchange was to be released was also raised from four to five years in cases where the student desired to take up a Ph.D course in addition to a degree course.

The exchange facilities granted to holders of B.Sc. degree with 60 per cent marks for taking up degree courses in approved technical subjects other than engineering subjects were extended in May 1967 to cover degree courses in engineering.

Uniformity was brought about in October 1967 when all engineering degree holders with 54.5 per cent marks and above were considered eligible for taking up any of the approved technical/engineering subjects.

Following the change in the par value of the pound sterling on November 18, 1967, the maximum and minimum rates for buying and selling sterling by the Reserve Bank from/to authorised dealers were revised respectively from £ 4.8095238 to £ 5.6111111 per Rs. 100 and from £ 4.7142858 to £ 5.5000001 per Rs. 100. In accordance with these changes, the actual rates at which the Reserve Bank bought and sold sterling were also revised with effect from November 20, 1967. The buying rate for delivery within six months (including spot) was changed from £ 4.7619 to £ 5.5556 per Rs. 100 and the selling rate for ready delivery from £ 4.7467 to £ 5.5380 per Rs. 100 (forward sales were discontinued on June 10, 1966). The rates prescribed by the Reserve Bank for purchase and sale of sterling notes by authorised dealers and money changers for their transactions with the public were also revised respectively from Rs. 20.75 to Rs. 17.72 per £ 1 and from Rs. 21.25 to Rs. 18.25 per £ 1.

In December 1967, it was decided to permit withdrawals from the National Defence Remittance Scheme Special Accounts held by non-residents of Indian origin for investment in public/private limited companies in India on the following conditions, namely, (a) neither the capital nor the profits earned would be allowed to be repatriated and all amounts due to the non-resident investor would be credited to his National Defence Remittance Scheme Special Account; and (b) where the investment was in a resident private limited company Indian participation should be progressively increased to at least 49 per cent within a period of, say, five years.

The emigration facilities hitherto granted to members of the Anglo-Indian community were withdrawn in January 1968. However, it was decided to give exceptional consideration to those who had entered into definite commitments prior to February 1, 1968 in anticipation of the actual emigration from the country. An annual ceiling of Rs. 10 lakhs was instituted for total remittances by emigrant Indian nationals including Anglo-Indians. This ceiling covered the initial transfers, subsequent instalments of capital transfer as also remittances of income. Applications for grant of emigration facilities within this ceiling are considered by the Bank provided the applicant has compelling reasons for leaving the country and settling abroad, and where the denial of the facility is likely to cause undue hardship.

In February, 1968, the emigration facilities hitherto granted to Indian Jews wishing to emigrate to Israel were withdrawn and it was decided to consider requests for emigration facilities from them also, only on grounds of hardship as in the case of other Indians. However, consideration would be given to cases where definite commitments had been entered into prior to March 1, 1968 in anticipation of emigration to Israel.

In order to prevent leakage of foreign exchange the Cabinet Committee on Tourism and Transport recommended that the present list of authorised money-changers should be reviewed and the number of money-changers reduced by one-third. Accordingly, the policy regarding the issue and renewal of money-changers' licences was revised in March 1968. Under the modified arrangements, the existing licences would be allowed to continue only if the foreign exchange purchased/accepted by the licence holder during a year exceeded \$ 10,000 or its equivalent and fresh licences would be issued only against an undertaking from the applicant that he would secure a minimum foreign exchange receipt of \$ 10,000 or its equivalent per annum.

With a view to facilitating expeditious disposal of applications for passage clearance and travel abroad (including travel for higher studies/training) the Bank opened on April 1, 1968, Exchange Control Cells at Bangalore, (State of Mysore), Hyderabad (State of Andhra Pradesh), Jaipur (State of Rajasthan), Nagpur (State of Madhya Pradesh and Vidharbha region of State of Maharashtra) and Patna (State of Bihar) to process the applications from residents in the several areas indicated in the parentheses.

INDIANS OVERSEAS

THE number of Indians abroad (1967) is given below as per the available informations with our missions abroad.

Afghanistan 21,800; Aden 2,000; Algeria 188; Argentina 160; Australia 15,754; Austria 165; Bahrain 5,000; Barbados 500; Belgium 400; Bolivia 7; Botswana 415; Brazil 100; Bulgaria Nil; Burma 2,75,000; Burundi 177; Cambodia 125; Cameroun 30; Canada 39,029; Ceylon 11,45,000; China 19; Chile 63; Colombia 34; Camores Islands 85; Congo 2,012; Cuba 32; Cyprus Nil; Czechoslovakia Nil; Dahomey 2; Denmark 102; Ethiopia 4,068; Fiji 2,42,224; Finland 40; French Guiana 2; France 312; Ghana 1,754; Gibraltar 150; Grenada 9,500; Greece 2; Guinea 5; Guyana 3,42,374; Hong Kong 4,000 to 5,000; Hungary 42; Indonesia 25,000; Iran 1,000; Italy 350; Iraq 2,000; Ireland 330; Jamaica 28,600; Japan 995; Jordan 23; Kenya 1,88,000; Kuwait 12,000; Laos 800; Lebanon 293; Le Reunion 430; Libya 344; Liberia 325; Madagascar 17,704; Malawi 10,880; Malaysia 8,08,101; Malta 106; Mauritius 5,25,073; Mexico 25; Morocco 582; Muscat 1,263; Nepal 30,01,800; Netherlands 1,366; New Zealand 5,000; Nigeria 2,500; Norway 26; Panama 362; Philippines 1,945; Poland 53; Peru 20; Qatar 2,000; Rumania Nil; Rwanda 38; Saudi Arabia 1,583; Senegal, Ivory Coast, Upper Volta, Gambia, Mauritania 582; Sierra-Leone 425; Singapore 1,29,500; Somalia 1,002; Southern Rhodesia 8,100; Spain 1,500; St. Vincent 3,700; Sudan 2,500; Surinam 1,20,100; Sweden 344; Switzerland 900; Syria 75; Tanzania 1,02,000; Thailand 18,000; Trinidad and Tobago 3,63,799; Togo 3; Tonga 26; Trucial States 5,000; Tunisia 46; Turkey 56; U.A.R. 491; Uganda 80,000; U.K. 2,32,210; Uruguay Nil; U.S.A. 21,919; U.S.S.R. 756; Venezuela 12; Vietnam (north) 10; Vietnam (south) 1,550; West Germany 4,251; Yemen Nil; Yugoslavia 120; Zambia 11,850.

EMIGRATION LAWS

"Emigration" means the departure, by sea or by air, out of India, of Citizens of India, under an agreement to work for hire in any country beyond the limits of India, or if assisted to depart otherwise than by a relative with the intention of working for hire or engaging in agriculture.

Such emigration is governed by the Emigration Act, 1922 (7 of 1922) and the Rules made thereunder, as amended from time to time.

Emigration for the purpose of 'unskilled work' is prohibited, while emigration for the purpose of 'skilled work' is permissible on compliance with the prescribed formalities.

The functions under the Act are discharged by the Central Government through the Controller-General of Emigration and Jt. Secretary to the Government of India in the Ministry of External Affairs, New Delhi, with the assistance of the Protector of Emigrants at the Ports and airports from which emigration is lawful.

The emigration figures for 1967-68 (1st April 1967 to 31st March 1968) is given below :

South Africa and Portuguese East Africa (—); East Africa 286; Indonesia 1; Malaysia 56; Saudi Arabia 253; Burma 1; Ceylon 4; Fiji (—); Zambia 100; Malawi (—); S. Rhodesia (—); Surinam (—); Guyana 3; West Indies

(—); U.S.A. 47; Canada 59; Kuwait 869; Nigeria 101; Dubai 209; Bahrain 377; Abu Dhabi 94; Qatar 99; Ghana 52; Muscat 292; Other countries 414.

AUSTRALIA

An Indian already domiciled in Australia has full citizenship rights, including the right to introduce a spouse and minor unmarried children. Indian business men, *bona fide* tourists, sportsmen and entertainers may visit Australia and stay for periods not exceeding 12 months, and Indian students may be admitted with temporary residence status for education and specialised training.

Indian citizens already admitted with temporary resident status (other than in a student or visitor capacity) but with the intention of indefinite stay will qualify to apply for resident status and citizenship after five years residence.

An application by an Indian who wishes to settle in Australia with his wife and children is considered on the basis of the applicants' suitability as settlers, ability to integrate rapidly, and having qualifications which are in fact positively useful to Australia. After five years' stay on temporary permits, they may apply for resident status and citizenship.

BURMA

There are still about two lakh persons of Indian origin in Burma.

CANADA

The Canadian Government have agreed to take an annual quota of 300 immigrants from India.

Applications from prospective immigrants to Canada from India should be addressed to The Canadian Immigration Attache, 7 Link Road, Jungpura Extension, P.O. Box 161, New Delhi-1.

Indian residents of Canada are largely comprised of labourers employed in lumbering and trucking. There are a few lumber mill owners, and some are working as clerks in various establishments. A good number can also be termed professionals, technicians and highly skilled workers. The majority of Indians are in British Columbia. A good many today go on to industrial centres like Montreal and Toronto. The Indian community is called the "East Indian Community".

Any person admitted to Canada as an immigrant might become a citizen of Canada after five years' continuous residence there.

There are no disabilities on Indians in the matter of owning property, engaging in trade or profession, entering Government service or residence in any locality.

Indians can remit to India any amount earned in Canada.

Figures of Indians arriving in Canada: 1957: 324; 1958: 451; 1959: 716; 1960: 673; 1961: 744; 1962: 725; 1963: 846; 1964: 1,295; 1965: 2,241; 1966: 2,233.

CEYLON

There are about 11,87,059 persons of Indian origin in Ceylon. Out of this number, approximately 26,829 are Indian citizens, 1,34,236 are registered citizens of Ceylon and 10,29,994 are stateless persons. The large majority

of these persons are employed in the tea and rubber estates in Ceylon. Merchants, petty shop keepers and employees in business establishments constitute the balance and are mainly concentrated in the urban areas.

About 1,30,778 Indian nationals had left Ceylon either voluntarily or because of non-renewal of their visas upto the end of April, 1967 as a result of Ceylonisation programme of the Government of Ceylon.

A non-national leaving Ceylon can repatriate Rs. 1.5 lakhs in the case of those other than Indians and Rs. 75,000 for Indians.

EAST AFRICA

Indians came to East Africa long before the Europeans. They played an important role in Kenya's history as skilled labourers, lawyers, clerks, railway officials and contractors, thereby filling the middle sections of the civil service and bureaucracy.

The Government of India has taken practical steps to promote industrial and technical collaboration and development of commerce and trade with East Africa. Indian industrialists have been encouraged to help in the development of East Africa by setting up industrial plants.

ETHIOPIA

Emigration to Ethiopia is neither restricted nor entirely free. Each case is judged on its merits, and there is no quota. Foreigners who wish to start new industries or go into farming are given special encouragement.

Remittances from Ethiopia to India by Indians are restricted and regulated by rules according to which anybody who is for more than six years in Ethiopia can remit only family expenses for near relatives on the basis of affidavits from India. There is no restriction for grant of foreign exchange for importing goods.

Most of the Indians are business men from the Gujarat and Saurashtra regions of India. Almost all of them are engaged in trade specially in the import of textiles. Besides, there are over 700 Indian teachers who have been recruited by the Ethiopian Government to further the cause of education. Some Indians are engaged also as Advisers to various Ministries. There are also a few Indians working as International Civil Servants in the Economic Commission for Africa whose headquarters are at Addis Ababa.

FIJI

Generally Indians play an important part in the economic field, in the role of farmers, retail traders, land transport operators etc. They have also entered the professional ranks including Civil Service, law and medicine.

GUYANA

In Guyana 50 per cent of the population are of Indian origin. The bulk of the Indian settlers are sugar workers, cane farmers or rice growers and have become citizens of Guyana since Guyana attained independence.

INDONESIA

The economic condition of Indians here is fairly good. They mostly deal in textiles and sports goods, although a fair number of Indians in parts of Sumatra live off the land and run small dairies etc.

MALAWI

Malawi is a small land-locked country with an area of about 45,000 square miles and a population of about 3 million of which 10,880 are of Indian origin. India has its High Commission in Malawi at Blantyre.

MALAYSIA

The labouring and non-labouring classes of Indians may be roughly estimated at 70 per cent and 30 per cent respectively of the entire Indian population, the former employed in rubber and palm oil estates and tin mines and the latter either employed in the clerical ranks of the various Govt. departments, mercantile firms and banks, rubber estates, palm oil estates and pineapple plantations etc., or employed in business, trade and other professions such as law and medicine.

The Indian trading community is composed of Chettiers, Gujaratis (both Hindus and Muslims), Sindhis, South Indian Muslims (both from Madras and Malabar) and a few Sikhs.

Indians do not suffer from any special disabilities. They are eligible for citizenship if they fulfil the prescribed conditions.

MAURITIUS

People of Indian origin in Mauritius form about 68 per cent of the total population of 7,73,573 as on June 30, 1967. These people have been settled here for generations and are now known as "Indo-Mauritians". Between 35 to 40 per cent of the agricultural land in Mauritius is owned by these Indo-Mauritians. A large number of them are farm labourers in sugar plantation. The rest are engaged in commerce and trade or professions or Government service. Indo-Mauritians are coming into their own and on the whole their economic and social conditions compare favourably with people of Indian origin in other countries.

NEW ZEALAND

The applications from Indians for permanent entry have been approved at the rate of approximately 100 applications per annum over the past few years.

The greater part of the Indian community is concentrated in the main urban centres, where for the most part they are engaged in small businesses such as grocery stores, importing houses or restaurants. Others, however, are employed in industry and in clerical work and other professions.

Indians enjoy the right to vote in Parliamentary and Municipal elections and do not suffer from any economic, political, legal or other disability.

Remittances made by all New Zealand residents (including Indians) from New Zealand are subject to exchange control.

PHILIPPINES

Subject to compliance with prescribed requirements, Indian nationals are now admitted to the Philippines as immigrants under an annual quota not exceeding 50 for each calendar year.

REPUBLIC OF ZAMBIA

India has an office of High Commissioner in Zambia at Lusaka.

SAUDI ARABIA

Entry visa regulations of the Govt. of Saudi Arabia are very strict and generally entry visas are issued only to those sponsored by a Saudi national or a foreign government.

There is no restriction on remittances sent from Saudi Arabia to any part of the world, except Israel.

About 2,000 Indians reside in Saudi Arabia out of which about 500 are employed with the Arabian American Oil Company (ARAMCO) alone on contract basis in different capacities. Others are working in government departments and private firms.

SOUTH AFRICA

Persons of Indian origin in South Africa numbering about a million are serving as traders, farmers, factory workers, and a small number of professionals, such as doctors, lawyers. Most of the present generation are born in South Africa and have been accepted as South African nationals.

Racial discrimination against Indians exists in South Africa in every walk of life and in the worst possible form. Persons of Indian origin are practically excluded from parliamentary and provincial franchise as well as from public services except in menial and subordinate posts.

The South African Government has abandoned its early policy of repatriation on which it had hitherto pinned its faith as a solution to the Indian "problem". They have now created a Ministry of Indian Affairs. All matters pertaining to Indians are being dealt with by this Ministry.

There is no special limit to remittances by Indians to India.

South Africa has persistently refused to accept the numerous resolutions passed by the U.N. urging it to give up its policies of racial discrimination. As a result of pressure exerted by the Commonwealth of Nations, the Government of South Africa withdrew therefrom on May 31, 1961, rather than give up apartheid.

SUDAN

The Indian Community is mostly in trade of textiles, tea, jute goods, essential oils, gum, arabic and dura. Almost all these traders come from Gujarat State and continue maintaining their ties with the motherland.

There are about seventy Indians working under the Government of Sudan on contract basis — a few of them are experts from the United Nations.

Remittances are governed by exchange control regulations.

SURINAM

Surinam is an autonomous part of the kingdom of the Netherlands.

There are 120,100 Indians in a total population of 302,000. They form the second largest group.

Indians are mainly engaged in agriculture, business and trade. The majority of Indians are sugar estate workers or cane farmers. Hindi is widely spoken and understood.

There are no constitutional, legal or any other disabilities on Indian immigrants.

TANZANIA

There are nearly 100,000 persons of Indian origin living in Tanzania including nationality-wise about 5,000 Indian nationals, 50,000 British subjects, 35,000 naturalised Tanzanians, 5,000 stateless persons and another 5,000 whose applications for Tanzanian citizenship are yet to be decided. More than half the total number of persons of Indian origin are Muslims — Ismailis, Bohras and Ittenassarais. They are mostly engaged in wholesale and retail trade, manufacturing industries, Public Services, running of big agricultural farms like Coffee Estates etc.

THAILAND

The annual quota is 200 and the selection is made by the Government's Immigration Division in Bangkok. No discrimination against the Indian population prevails in Thailand. Remittances out of the country are controlled by the Bank of Thailand's rules and regulations.

UGANDA

The persons of Indian origin numbering 80,000 as of 1967 are predominantly Hindu, but there is also a substantial number of Muslims. Gujarati is the language spoken by them.

Apart from the Indian settlers who are mainly in business, there are Indians who are employed as teachers, doctors, nurses, engineers, etc., with the Uganda Government on contract or permanent terms. The Indian community in Uganda on the whole is fairly well-off.

Entry into Uganda is strictly regulated through entry passes and further immigration is not allowed.

U.S.A.

Until June 1968 the U.S.A. had fixed a quota of 100 plus some not used from quotas for other countries. After that date there is no numerical limit, except for an upper limit of 20,000 which applies to all other countries as well. During 1967, there were 21,919 persons of Indian origin in the U.S.A.

There are certain categories of aliens who are excludable under Section 212 of the Immigration and Nationality Act. These exclusions apply to both immigrants and non-immigrants, although there are exceptions and certain discretionary powers vested in the Attorney-General and the Secretary of State.

There are a variety of requirements which must be met before an immigration visa can be issued. No consideration can be given to third, sixth and non-preference applicants until they obtain certification from the U.S. Department of Labour. The application can be made at a diplomatic or consular office of the United States. These offices are located in New Delhi, Bombay, Calcutta and Madras within India. It must be emphasized that under the Indian quota, the demands have been so high for preference visas that no numbers have been allocated to non-preference applicants for many years.

An immigrant, regardless of race, colour or creed, admitted into the United States as a permanent resident alien is eligible for American citizenship, if he fulfils the residence and other requirements laid down in the Immigration and Nationality Act of 1952, as amended.

There are no restrictions on the remittance of American funds abroad.

THE WEST INDIES

Trinidad and Tobago :

The people of Indian origin number over 3,63,799, as of 1967 i.e. approximately $\frac{1}{3}$ of the total population.

The bulk of the people of Indian descent work on agricultural farms, industrial estates and in business houses. A majority of the departmental stores, gas stations and taxi stations are owned by East Indians.

Entry into the country is regulated through work permits which are issued sparingly. No visa is required for Commonwealth citizens.

There are no restrictions for remittances to soft currency areas.

Jamaica :

The people of Indian descent who are engaged primarily in agriculture number 28,600 (1967).

Entry into the country is regulated through work permits which are issued very sparingly.

No visas are required by Commonwealth citizens.

There are no restrictions for remittances to soft currency areas.

Barbados :

A very densely populated island Barbados has a comparatively small population of the people of Indian descent. People of Indian origin number about 500. A majority of them own small size stores in Bridgetown.

Immigration is controlled through a system of work permits. Commonwealth citizens do not require a visa for initial entry.

There are no restrictions for remittance to soft currency areas.

Urinams :

The people of Indian descent comprise nearly $\frac{1}{3}$ of the total population. A majority of them live in rural areas forming the backbone of the country's agricultural economy.

Hindi is widely spoken and understood in Surinam. Indian cultural values have been well preserved.

Immigration is controlled by a rigid system of work permits. Entry permits are issued to technical trained personnel for limited periods.

There are no constitutional, legal or any other disabilities suffered by people of Indian descent.

POSTS AND TELEGRAPHS

THE Indian Posts and Telegraphs Department comes under the administrative control of the Government of India, in the Department of Communications. The Secretary of the Department holds charge of the office of the Director-General, Posts and Telegraphs as also that of the Chairman of the Posts and Telegraphs Board. The Posts and Telegraphs Board and the Director-General, Posts and Telegraphs between them exercise all the powers of the Department of Posts and Telegraphs in administrative matters. The Department discharges also certain agency functions like the work of Post Office Savings Bank, National Savings Certificates and Postal Life Insurance Policies, collection of Broadcasting Receiver Licence and collection of customs duty on postal articles on behalf of other Departments of the Government of India.

BUDGET ESTIMATES (1968-69)

Revised estimates for 1967-68: Revenue receipts, Rs. 172.70 crores; Working expenses (net) Rs. 174.96* crores; Net receipts, Rs.—2.26 crores; Dividend to General Revenues, Rs. 18.35† crores; Deficit, Rs. 20.61 crores; Amount withdrawn from Revenue Reserve Fund, Rs. 20.61 crores.

Budget estimates for 1968-69: Revenue Receipts, Rs. 212.67 crores; Working expenses, Rs. 192.10 crores; Net receipts, Rs. 20.57 crores; Dividend to General Revenues, Rs. 12.82 crores; Surplus, Rs. 7.75 crores; Appropriation to Revenue Reserve Fund, Rs. 7.75‡ crores.

STAFF

The total staff (including Audit and Accounts) employed in the Posts and Telegraphs Department on March 31, 1967 was 513,342 (including 174,374 extra departmental employees and 3,389 Gazetted Officers).

TRAFFIC STATISTICS

Estimated postal traffic for 1967-68: Postal articles (excluding money orders) 6,447 million; Registered articles, 172.0 million; Money orders 95.0 million; Savings Bank Transactions 60.8 million; Telegraphs 43.2 million; Trunk calls 43.2 million; STD Calls 32.2 million; Value of money orders issued Rs. 53 crores; Telephones 1,015,000.

COMPLAINTS

The no. of complaints received during 1967 was 705,668. This works out to .0108 per cent of the total traffic against

.0124 per cent in 1966. The number of complaints disposed of during the year was 718,527.

POSTS

In the last 20 years nearly 80,000 post offices were opened in India, 3,100 of them between Jan. 1 and Nov. 30 of 1968. The number of post-offices in the rural areas at the beginning of July 1968 was 90,600. There are more than one lakh post offices in the country now (Jan. 1, 1969).

During 1968 370 branch offices and extra Departmental Sub-offices were upgraded into departmental sub-offices.

Night Air-mail Service : An inland night air mail service links the principal cities—Bombay, Calcutta, Madras, Delhi and Nagpur. All inland letters, letter cards, post cards and money orders are carried by air without any surcharge.

Night Post Offices : There are 57 night post offices in the country. Night post offices remain open on Sundays and also kept open beyond normal working hours. During 1967 the following post offices were converted into night post offices: Hubli H.O., Bhubaneswar H.O., Akola H.O., and Chandni Chowk, Delhi H.O.

Runners' Lines : During the year ending 31st March 1967, 727 runners' lines covering a distance of 17,698 kilometres have been converted by quicker mode of conveyances as given below in the order of nature of conveyance, number of lines and coverage in kilometres.

Mail motor services 340; 14,260; Horse drawn Vehicles 25; 232; Camels, Mules etc. 14; 222; Bicycles 2; 20; Other means (i.e. boats, steamers etc.) 2; 40.

Now (Jan. 1969) 3.1 lakh villages receive letters every day, 1.6 lakh villages three times a week, 89,000 villages twice a week and 5,449 villages get their letters more than a week.

Letter Boxes : There were 1,00,851 letter boxes planted outside the post offices; 62,226 being in rural areas.

Philatelic Deposit Account Scheme : This scheme introduced in four philatelic bureaux viz., Bombay, Calcutta, Delhi and Madras with effect from Aug. 1, 1965 proved popular. Under this scheme philatelists open account with an initial deposit of Rs. 50.

Mobile Post Offices : Fifteen mobile post offices now function in 11 cities and towns—Delhi, Bombay, Madras, Calcutta, Bangalore, Poona, Hyderabad, Ahmedabad, Nagpur, Kanpur and Bhillai.

* Includes Rs. 2.26 crores withdrawn from Revenue Reserve Fund to meet the year's deficit.

† Includes arrears Dividend for 1965-66 (Rs. 394 crores) and for 1966-67 (Rs. 3.10 crores).

‡ Since there was no balance at credit of P. & T. Revenue Reserve Fund a loan of Rs. 20.61 crores was taken during 1968-69 to that fund from the General Revenue to meet the deficit. This loan has to be paid in three annual instalments with interest. A sum of Rs. 7.75 crores (including Rs. 0.88 crore towards interest) has to be paid to General Revenue in 1968-69 as first instalment of the loan, out of the balance at credit of the Revenue Reserve Fund.

Savings Banks: The post office savings bank is the largest people's bank. It has almost twice as many depositors as all the commercial banks put together. There were 70,721 post offices doing savings bank transactions (Nov. 1968) and the balance at the beginning of the current financial year stood at Rs. 1,650 crores; Rs. 110 crores more than the corresponding figure in the previous year.

Unit Trust: The sale of Unit Trust 'Units' have been authorised with all the post offices and sub-post offices in the country with effect from July 1, 1966.

Postal Life Insurance: Proposals relating to 14,722 policies for Rs. 4,93,06,000 were accepted during the period April, 1967 to December, 1967 as against 15,050 policies for Rs. 4,47,67,700 during the corresponding period in the previous year.

With effect from the 1st of April, 1967 the premium rates have also been reduced.

Commemorative Stamps: Name and date of issue respectively are as follows:

Nandalal Bose, April, 16, 1967; Survey of India Bicentenary, May, 1, 1967; Basaveswara, May, 11, 1967; Narsinha Mehta, May, 30, 1967; Maharara Pratap, June, 11, 1967; Narayana Guru, Aug., 21, 1967; Dr. S. Radhakrishnan, Sept., 5, 1967; Quit India Movement Oct., 1, 1967; Centenary of the Installation of Bidriware, Oct., 16, 1967; Brassware, Oct., 16, 1967; Family Planning, Oct., 16, 1967; Gnat Plane, Oct., 16, 1967; Somnath Temple Oct. 16, 1967; Centenary of the Installation of Indo-European Telegraph Line, Nov. 9, 1967; World Wrestling Championship, Nov. 12, 1967; Nehru and Nagaland, Dec., 1, 1967; Rashbehari Basu, Dec., 26, 1967; Diamond Jubilee of Scout Movement, Dec. 27, 1967; International Year for Human Rights, Jan. 1, 1968; Second International Conference-Seminar of Tamil Studies, Jan., 3, 1968; United Nations Conference on Trade and Development, Feb., 1, 1968; Centenary of Amrit Bazar Patrika, Feb. 20, 1968; Maxim Gorky Birth Centenary, March, 28, 1968.

TELEGRAPH SERVICES

Conversion of large combined posts and telegraph offices into departmental telegraph offices is being undertaken in order to improve the telegraph service. The total member of such departmental telegraph offices on December 31, 1967 stood at 214. Four more offices were expected to be added to this list by March, 1968.

Auto Working: Automatic pre-punching of tapes and transmitting them have been introduced on three more circuits during 1967-68, bringing the total of such circuits in the country to 31.

Teleprinters: The total number of teleprinters in use as on Dec. 31, 1967 was 7,608. This includes 72 teleprinters with the Devnagri keyboard. 545 additional teleprinters were expected to be brought into use before March 1968.

Telex and International Telex:—The most important development in the subscriber to subscriber transmission of printed messages was the commissioning of teleprinter exchanges at important cities on June 24, 1963. This service has now been extended to Coimbatore, Kanpur, Ahmedabad, Bangalore, Hyderabad, Nagpur, Madurai, Patna, Secunderabad, Poona, Gauhati, Tiruchy, Ranchi, Lucknow, Srinagar, Vijayawada and Jaipur. Besides these, Ernakulam and Amritsar were also expected to have this system by March 31, 1968.

International Telex Service from India is available to 65 countries.

TELEPHONES

Telephone facilities are provided at tehsil and equivalent headquarters, block headquarters, Police stations and at places with population of over 5,000.

The total number of telephones in the country as on Dec. 31, 1967 was about a million. It was expected that one lakh more telephones would be added by March 31, 1968.

The registered number of persons in the waiting list as on December 31, 1967 was 425,000.

The total number of connections given under O.Y.T. scheme upto December 15, 1967 was 1,15,234 and the revenue accrued from the subscribers under the scheme was Rs. 27,50,05,286. This scheme has been in force in 11 cities of the country. A further expansion of this scheme for 68 more stations has been given effect from Jan. 1, 1968. It was expected that another 4,200 would be added in the number of subscribers and Rs. 1,15,00,000 towards collections by the end of March 1968.

Subscriber Trunk Dialling: In this system, a subscriber can himself directly dial the number of the distant exchange subscriber thus eliminating the need for booking and putting through of calls by operators. This facility is now available on 16 routes, viz., Lucknow-Kanpur, Delhi-Agra, Delhi-Jaipur, Agra-Kanpur, N. Delhi-Kanpur, N. Delhi-Lucknow, N. Delhi-Patna, N. Delhi-Jullundur, N. Delhi-Meerut, Madras-Bangalore, Kanpur-Varanasi, Delhi-Simla, Delhi-Ahmedabad, Delhi-Jammu; Delhi-Srinagar and Srinagar-Jammu.

Coaxial Cables: In order to provide a large number of high grade circuits between important cities in the country, the laying of control trunk cable was taken up in 1958. Under this system 504 channels have been added on the route and 252 additional channels were expected to be commissioned by March 1968.

National Subscriber Dialling: The National Subscriber Dialling network is being planned to permit subscribers of automatic exchanges of one city to directly dial and obtain subscribers of other cities in the country. These facilities are already available on a point to point basis on 16 routes (serving 32 cities). In the National Dialling Plan these facilities will be extended to cover more important stations and provide transit dialling facilities which are not available in the existing point to point scheme.

Microwave: During 1966-67 microwave relay links were commissioned over two routes, viz.: Ambala-Chandigarh-Simla and Calcutta-Kharagpur. The schemes which were in progress during the year (1966-67) were as follows: Jullundur-Srinagar Scheme (480 kms); Calcutta-North Bengal-Assam Scheme (1610 kms); Delhi-Jaipur Scheme (260 kms); Poona-Secunderabad Scheme (550 kms).

Other projects in progress are: Asansol-Dhanbad-Ranchi, Coimbatore-Ooty-Kozhikode, Panaji-Belgaum, Dehradun-Mussoori-Muzaffarnagar and Asansol-Singarsi.

Projects for 17 more routes have been sanctioned and the preliminary works in this connection are in progress.

Railway Electrification Telecommunication Cables: The P. & T. Department is required to lay specially protected aluminium sheathed cables along railway tracks due for conversion to AC traction. A total of 2,900 Kms. of cables were laid before Dec. 1967.

WIRELESS

New Stations/Links opened (1967-68): Gauhati-Tura wireless telegraph link; Gauhati-Imphal radio teleprinter

link; Gauhati-Silchar radio teleprinter link; Kohima-Shillong VHF radio telephone link; Calcutta-Port Blair radio teleprinter link, Diu-Una VHF radio-telephone link; Rajahmundry-Amalapuram VHF radio telephone link; Kidarnath-Kalpa seasonal wireless telegraph link.

Wireless Networks : Coastal stations 12; Monitoring stations 6; Departmental and leased stations 167; Radio Telegraph circuits 138; Radio Teleprinter circuits 15; Radio Telephone circuits 72. In addition to the above, maritime services are provided from 30 coastal stations.

Workshops : The P. & T. workshops produced line and equipment stores worth Rs. 557 lakhs during 1966-67. The production achieved during the first 8 months of the year 1967-68 was Rs. 329 lakhs and was expected that at the end of 1967-68 the production would exceed the target of Rs. 550 lakhs.

Postal Rates (India) : Letters (ordinary) upto the first 15 grams 0.20 p. and every additional 15 grams or part 0.15 paise; Post cards (single) 10 p. and reply 0.20 paise; Book post (50 grams) 15 p. and every additional 25 grams or part, 0.10 paise; Book Packets containing printed books only (upto 100 grams) 0.10 p. and per 50 grams thereafter or part 0.05 p.; Registered newspapers (for single copies upto 100 grams) 0.05 p. Newspapers exceeding 100 grams & not exceeding 250 grams 0.10 p.; and per 250 grams thereafter or part 0.05 p.; Parcels (per 400 grams) 0.80 p.; Registration fee 0.70 p.; Acknowledgement fee 0.15 p.; Certificate of Posting fee (per 3 articles)

0.10 p.; Insurance fee (upto Rs. 100) 0.50 p.; Per Rs. 100 thereafter upto Rs. 5,000, 0.30 paise (on each Rs. 100) and per Rs. 1,000 upto Rs. 10,000, 100 p.; Money Order Commission, Per Rupees 10 upto Rs. 200, 0.20 p.; Per Rs. 20 beyond Rs. 200, 0.30 p (Cost of M.O. form 0.05 p. adjustable towards Commission); Postal Orders (per postal order of any denomination upto Rs. 10) 0.10 p.; Value payable article — Posting fee (not exceeding Rs. 25) 0.10 p and exceeding Rs. 25, 0.20 p; Express Delivery fee (unregistered article) 0.15 p., per Registered articles 0.20.

Foreign : Letters (upto 20 grams) 0.75 p. and for 20 grams thereafter 0.45 p.; Post cards (single) 0.45 paise, Reply paid 0.90 p.; Printed papers (upto 50 grams) 0.40 paise, and per 50 grams thereafter 0.20 p.; Samples and mixed packets 0.75 p.; Registered newspapers (upto 50 grams) 2.20 p.; and per 50 grams thereafter 0.10 paise; Insured Boxes (upto 250 grams) Rs. 3.00, per 50 grams thereafter 0.50 p., Registration fee (bulk bags) Rs. 3.00; Acknowledgement fee 0.50 p.

Foreign Air Mail Rates : Ceylon, Pakistan—Post cards 0.20 p.; Aerogram 0.25 paise; To Afghanistan and Burma Post cards 0.50 p. and Aerogram 0.65 p.; others: Post Card 0.75 p., Aerogram 0.85 p.

Telegraphs (Inland) : The charges of ordinary and express telegraph respectively (non-press telegraphs) for the first eight words Rs. 1.20 and Rs. 2.40 and each additional word 0.10 p. and 0.20 p.

THE CO-OPERATIVE MOVEMENT (1966-67) *

CREDIT SOCIETIES

ON June 30, 1967, the total number of banks and credit societies of all types stood at 2,00,324 with a membership of 38,431,000 as compared to 2,14,012 banks and societies as on June 30, 1966. The membership represents an increase of 7.9 per cent over that on June 30, 1966. The share capital, statutory reserve and other funds increased by Rs. 58.6 crores to Rs. 472.1 crores while deposits, borrowings from higher financing agencies, debentures etc., increased by Rs. 211.8 crores to Rs. 1,952.3 crores. The aggregate working capital rose from Rs. 2,154.0 crores to Rs. 2,424.4 crores as on June 30, 1967, an increase of 12.5 per cent.

STATE CO-OPERATIVE BANKS

There were at the end of June 1967, 25 state co-operative banks with a membership of 8,290 individuals and 13,167 banks and societies. Working capital of these banks in crores of rupees as on June 30, 1967 (figures in brackets relate to June 30, 1966: Owned funds 55.67 (44.95); deposits 147.38 (146.51); borrowings: Government 22.68 (20.30); Reserve Bank 172.99 (174.48); other sources 4.25 (3.74); working capital 402.95 (389.98). Loans and advances during the year amounted to Rs. 450.8 crores and represented an increase of Rs. 42.9 crores over the 1965-66 figure.

CENTRAL CO-OPERATIVE BANKS

There were 346 central co-operative banks as on June 30, 1967, with a membership of 253,642 co-operative societies and 98,723 individuals and others including the State Governments. Working capital increased from Rs. 583.5 crores on June 30, 1966 to Rs. 638.3 crores as on June 30, 1967 as shown below (figures in crores of rupees. The figures within brackets relate to 30 June 1966): Owned

funds 115.6 (101.9); deposits 259.3 (236.0); borrowings 263.3 (245.0); Working Capital 638.3 (583.5).

The loans and advances of the central banks increased from Rs. 545.0 crores during 1965-66 to Rs. 625.4 crores in 1966-67. As on June 30, 1967, the amount outstanding under loans and advances was Rs. 499.3 crores of which Rs. 412.5 crores were short-term and Rs. 86.8 crores medium-term loans.

AGRICULTURAL CREDIT SOCIETIES

The number of primary agricultural credit societies decreased further by 13,169 societies to 1,78,735 as on June 30, 1967. As against 26,709,000 members at the end of the year, the number of borrowing members was 10,611,000 i.e. 40 per cent of the total membership.

The working capital of the societies increased from Rs. 546.6 crores as on June 30, 1966 to Rs. 625.2 crores on June 30, 1967. Their owned funds increased by Rs. 16.5 crores and deposits by Rs. 4.6 crores. Loans issued during the year aggregated Rs. 365.2 crores showing an increase of Rs. 23.2 crores. Overdues have risen from Rs. 125.3 crores as on June 30, 1966 to Rs. 160.1 crores as on June 30, 1967 forming 34 per cent of loans outstanding as compared to 29 per cent as on June 30, 1966.

NON-AGRICULTURAL CREDIT SOCIETIES

The non-agricultural credit societies consisting of urban banks, employees' credit societies and others numbered 13,616 as at the end of June 1967. Their membership increased from 6,484,000 to 7,485,000. Working capital increased by Rs. 30.7 crores during the year and stood at Rs. 305.4 crores. Deposits amounted to Rs. 194.0 crores as against Rs. 176.9 crores as on June 30, 1966. The loans and advances made during the year amounted to Rs. 276.1 crores as compared to Rs. 246.7 crores during 1965-66.

* Source : Statistical Statements Relating to Co-operative Movement in India, 1966-67 for Credit Societies and 1965-66 for Non-Credit Societies by Reserve Bank of India.

CENTRAL LAND DEVELOPMENT BANKS

The number of such banks rose by 1 to 19 as on June 30, 1967, with a membership of 872 primary land mortgage banks and societies and 771,654 individuals (including nominal members). Paid-up share capital rose by Rs. 3.5 crores to Rs. 18.9 crores of which Government contribution was Rs. 6.1 crores. Their borrowings as at the end of June 1967 amounted to Rs. 238.6 crores of which Rs. 232 crores were by way of debentures.

Loans made by the land development banks during the year amounted to Rs. 58.9 crores as compared to Rs. 56.4 crores in 1965-66. Loans outstanding increased from Rs. 163.2 crores as on June 30, 1966 to Rs. 207.4 crores as on June 30, 1967.

PRIMARY LAND DEVELOPMENT BANKS

The number of such banks increased from 673 to 707 during the year. Of these 448 were in Andhra Pradesh, Tamil Nadu and Mysore. The membership increased by 312,163 to 2,156,816 and working capital from Rs. 136.9 crores to Rs. 173.6 crores. Loans outstanding increased from Rs. 124.3 crores to Rs. 154.7 crores during 1966-67. Overdues at the end of 1966-67 stood at Rs. 5.7 crores as against Rs. 4.4 crores as on June 30, 1966.

STATE PARTNERSHIP

State contribution to the share capital of various types of credit societies increased from Rs. 46.3 crores to Rs. 50.4 crores. This was received by the state co-operative banks (Rs. 10.3 crores), central co-operative banks (Rs. 21.6 crores), industrial co-operative banks (Rs. 1.1 crores), primary credit societies (Rs. 11.2 crores) and central land development banks (Rs. 6.1 crores).

NON-CREDIT SOCIETIES

Details relate to the year 1965-66.

The number of all types of non-credit societies both agricultural and non-agricultural at the close of 1965-66 stood at 1,32,173 representing an increase of 5,954 over the previous year. Number of different types of societies: weavers' societies 13,076, other types of industrial societies 35,089, consumers' societies 13,349, housing societies 11,778, milk supply societies 8,197, sugarcane supply societies 8,144, farming societies 7,295, marketing societies 3,375 and co-operative fisheries 3,338. Membership of these different types of societies stood at 162,93,845 and their working capital Rs. 648 crores.

The following are some of the important types of non-credit societies:

AGRICULTURAL MARKETING SOCIETIES

National and State Marketing Societies: The National Agricultural Co-operative Marketing Federation, New Delhi, had 65 societies as members. It sold agricultural produce worth Rs. 100.90 lakhs as against Rs. 106.85 lakhs in 1964-65.

At the State level, there were 21 institutions consisting of 19 general purpose marketing societies, one society for arecanut in Mysore and one for fruits and vegetables in Delhi. The apex societies had a membership of 5,667 societies and 630 individuals and others as regular members and 605 nominal members. The value of agricultural produce sold by the apex societies was Rs. 73.52 crores as compared with Rs. 30.72 crores in respect of 21 apex societies in 1964-65.

Central Societies: These societies functioning at the district or at the regional level, numbered 155. They sold

agricultural produce worth Rs. 11.62 crores in 1965-66, agricultural requisites and consumers' articles worth Rs. 38.78 crores and Rs. 30.39 crores respectively as against Rs. 36.93 crores and Rs. 33.69 crores in 1964-65.

Primary Marketing Societies: The total number of primary marketing societies declined from 3,235 in 1964-65 to 3,198 in 1965-66, with a membership of 1,39,823 societies, 20,41,346 individuals and others and 99,298 nominal (individual) members. Working capital as on June 30, 1966 was Rs. 63.72 crores. The value of their sales during 1965-66 amounted to Rs. 309.66 crores of which Rs. 179.52 crores were as owners and Rs. 130.14 crores as agents.

Linking of Credit with Marketing: Primary marketing societies numbering 525 assisted in the linking of credit with marketing and recovered loans amounting to Rs. 12.20 crores on behalf of 16,823 primary agricultural credit societies. Co-operative marketing societies in Maharashtra, Madhya Pradesh, Mysore and Uttar Pradesh together accounted for 91 per cent of the total loans recovered through marketing societies in 1965-66.

AGRICULTURAL PROCESSING SOCIETIES

Co-operative Sugar Factories: There were 78 co-operative sugar factories at the end of 1965-66 as against 70 at the end of 1964-65. Fifty-one factories were in production. All the sugar factories had on their membership rolls 11,170 societies, 2,73,297 canegrowers and 11,498 members other than growers of sugarcane. The value of sugar produced by the factories increased from Rs. 78.59 crores in 1964-65 to Rs. 112.08 crores in 1965-66. Their total sales of sugar and byproducts in 1965-66 amounted to Rs. 88.07 crores as compared to Rs. 66.59 crores in 1964-65.

Maharashtra had the largest number of sugar co-operatives viz. 24 out of which 20 were in production, which produced sugar worth Rs. 65.62 crores.

Cotton Ginning and Pressing Societies: There were 155 such societies of which 78 were in Gujarat and 64 in Maharashtra. They sold cotton of the value of Rs. 16.05 crores and agricultural requisites to the extent of Rs. 1.33 crores.

Other Agricultural Processing Societies: There were 1,894 primary societies of which 329 were engaged in paddy husking (other than rice mills), 142 were rice mills, 298 were engaged in oil crushing, 22 processed fruits and vegetables and 1,103 processed other commodities. They had a membership of 8,105 societies and 1.89 lakh individuals. The value of their sales increased from Rs. 2.95 crores in 1964-65 to Rs. 3.59 crores in 1965-66.

INDUSTRIAL SOCIETIES

Weavers' Co-operative Societies: There were 20 apex, 109 central and 12,947 primary weavers' societies as on June 30, 1966. The total membership of primary weavers societies as on June 30, 1966 was 13.14 lakhs with a working capital of Rs. 33.82 crores. The value of cloth produced and sold during the year was Rs. 53.03 crores and Rs. 53.86 crores respectively. These societies were running 1,888 sale depots, 92 pattern-making factories and 685 dye-houses.

Other Industrial Societies: There were 21 State, 121 Central and 34,950 primary industrial societies as on June 30, 1966. The 19,447 active primary societies had a membership of 11.70 lakhs comprising 2,978 societies and 11.67 lakh individuals. The value of production and the value of sales during 1965-66 were Rs. 27.60 crores and Rs. 28.34 crores respectively.

Spinning Mills : There were 65 such mills as on June 30, 1966, with 13,345 societies and 80,339 individuals as members. There were 8.40 lakh spindles. The value of yarn sold during the year amounted to Rs. 7.51 crores as against Rs. 6.51 crores in 1964-65.

OTHER NON-CREDIT SOCIETIES

Farming Societies : There were 5,077 joint farming societies with a membership of 1,09,810 during 1965-66. In field operation 52,730 members worked full-time and 17,382 members worked part-time. The area under operation of these societies was 2.57 lakh hectares of which 1.93 lakh hectares were under cultivation. The value of production was Rs. 3.78 crores. The number of collective farming societies increased by 216 to 2,218 and membership rose from 65,218 to 78,060.

Irrigation Societies : The number of irrigation societies increased from 1,471 as on June 30, 1965 to 1,558 as on June 30, 1966. These societies had executed irrigation works valued at Rs. 223.28 lakhs upto the end of 1965-66.

Fisheries Societies : There were 3,338 societies with a membership of 3.48 lakhs on June 30, 1966 as against 3,205 on June 30, 1965 with 3.26 lakh members. They advanced loans to the extent of Rs. 81.25 lakhs as against

Rs. 87.91 lakhs in 1964-65. The value of their catch was Rs. 2.04 crores and of sales was Rs. 4.01 crores.

Consumers' Stores : There were 272 wholesale stores during 1965-66 their sales amounting to Rs. 159.47 crores as against 222 stores selling goods worth Rs. 80.04 crores in 1964-65. The number of primary stores increased from 12,352 to 13,077. Their membership and paid-up share capital were 29.30 lakhs and Rs. 6.16 crores respectively. The purchases and sales of the primary stores during 1965-66 amounted to Rs. 142.24 crores and Rs. 162.30 crores respectively as against Rs. 91.75 crores and Rs. 118.12 crores in 1964-65.

Housing Societies : There were 13 State societies and 11,765 primary housing societies with a membership of 5,488 and 7.57 lakhs respectively. These societies constructed 6,666 independent houses and 15,218 tenements.

STATE PARTICIPATION

Total amount of Government contribution to the share capital of all types of non-credit societies increased from Rs. 32.42 cores in 1964-65 to Rs. 41.91 crores in 1965-66. Of this, marketing societies received Rs. 15.60 crores, sugar factories Rs. 10.83 crores and spinning mills Rs. 6.28 crores.

IRRIGATION

THE net area under irrigation in India during 1963-64 and 1964-65 were 26.13 and 26.16 million hectares and the gross area 30.57 and 31.19 million hectares respectively. The percentage of net irrigated area to the net sown area in the entire country was 19.16. Net sown area in 1964-65 was 137.92 million hectares. The irrigation potential has gone up from 56 million acres in 1947 to 88 million acres in 1967-68.

About 500 major and medium Irrigation Projects were taken up during the three Plans, which on completion, were expected to irrigate 17.81 million hectares. The benefits from these projects by the end of the Third Plan were expected, however, to be limited to about 7.3 million hectares of additional irrigated area. During 1966-67 a sum of Rs. 114 crores had been spent on irrigation.

Rainfall in the country is unequal and in many areas uncertain necessitating recourse to artificial irrigation. The distribution is as follows :

Range	(in million acres)	Percentage
Area between 0-30 inches ..	237.6	29.6
Area between 30-50 inches ..	339.2	42.0
Area between 50-75 inches ..	143.9	17.8
75 inches and above	85.6	10.6
Total area	806.3	100.0

The total capacity of India's canals is over 220,000 cusecs, and the canals are over 67,500 miles in length. The total amount of annual flow of water in the Indian Union is 1,360 million acre feet, distributed as follows :—

1. Rivers (excluding the Indus system) falling into the Arabian Sea, 251.5; 2. Rivers (excluding Ganga and Brahmaputra systems) falling into the Bay of Bengal, 334.0; 3. Indus basin in India, 64.4; 4. Ganga System, 397.1; 5. Brahmaputra System, 309.0.

Out of the water resources of 1,360 million acre feet owing to physiographical conditions only about a third, about 450 million acre feet are utilisable.

UTILISATION OF IRRIGATION POTENTIAL

During the Third Five Year Plan against a target of additional 19.6 million acres (8.0 million hectares), the actual achievement was 18.1 million acres (7.3 million hectares).

An additional irrigation potential of 0.97 million hectares (2.4 million acres) was created in 1966-67 and the additional utilisation of irrigation potential was 0.81 million hectares (2.0 million acres).

Names of major irrigation projects taken up in the Third Plan, estimated cost in Rs. million and ultimate irrigation in million acre respectively: ANDHRA PRADESH : Pochampad (406.1); (0.57); BIHAR : Chandan Reservoir (59.0); (0.14); MADHYA PRADESH : Gasdeo (90.0); (Water supply scheme); MADRAS* : Chittar Pattanamkal (77.6); (0.05); MYSORE : Malaprabha (200.0); (0.30); Upper Krishna (611.0); (0.60); PUNJAB : Beas Project Unit—I (Sutlej Beas Link) (108.0); (0.80); Beas Project Unit—II (Pong Dam) (297.0); (0.79); RAJASTHAN : Beas Project Unit (Sutlej Beas Link) (18.0); (Under Rajasthan Canal); Beas Project Unit—II (Pong Dam) (631.0); (Under Rajasthan Canal); UTTAR PRADESH : Western Gandak Canal (363.9); (0.60).

Drought

Adverse weather in recent years particularly in 1965-66 and 1966-67 has affected long areas in the country to severe drought. Eastern U.P. and South Bihar are among the worst affected areas. Measures for drought prevention and mitigation viz. irrigation projects are being examined to be taken up in the Fourth Plan. A number of pumped canal schemes have also been prepared and are under examination.

* Now called Tamil Nadu.

MINOR IRRIGATION

Minor irrigation works are works that can be conceived and handled to a large extent by the local people themselves, and individually cost Rs. 10 lakhs or less.

Minor irrigation schemes include construction of open wells, tanks and minor drainage schemes; embankments which are important from the point of view of food production and checking intrusion of salt water in coastal areas; restoration of old tanks, stream diversion schemes; and installation of pumping appliances and improvement of water supply from wells and storage dams. There are also such works as construction of kuhis in hilly areas, filter points in coastal alluvium and installation of improved lift appliances, Persian wheels and pumping sets on wells. Tubewells also form part of minor irrigation works.

TANKS AND WELLS

Tank irrigation is very important in Andhra, Tamil Nadu, Orissa and Uttar Pradesh where over 3.1, 2.0, 1.2 and 1.0 million acres respectively, are irrigated by tanks. Bengal, Mysore, Bihar, Gujarat and Maharashtra have over half a million acres under tank irrigation.

Wells: Wells are mainly of two types, i.e. surface or sub-surface. Unlike tanks, they can be constructed irrespective of topographical and geological limitations, provided sub-soil water is in reach.

Well irrigation commands over 5.9 million acres in Uttar Pradesh and 2.3 million in Punjab,* Rajasthan, Gujarat and Maharashtra. It is also of considerable importance in Tamil Nadu, Andhra, Madhya Pradesh and Bihar where over 1 million acres are irrigated by wells.

Pumping sets of high efficiency have come into common use for water lifting and also for draining.

Tubewells

A tubewell irrigates about 400 acres while a surface well barely 5 acres.

A centrally sponsored scheme for ground water surveys and investigation has been initiated.

During the period 1961-66 the exploratory tubewell organisation drilled 201 bores out of which 67 proved successful. In addition 704 productive tubewells were constructed during the same period. The organisation also drilled 360 productive tubewells in Bengal, Gujarat (Kutch), and U.P. of which 105 were successful.

RESEARCH

There are now nineteen stations in India, dealing with irrigation research problems:—

Andhra Pradesh Engineering Research Laboratories, Hyderabad, Andhra Pradesh (1945); Bhakra Dam Project Laboratory, Nangal, Punjab (1947); Bihar Institute of Hydraulic and Allied Research, Khagaul, Patna, Bihar (1956); Central Soil Mechanics & Concrete Research Station, New Delhi (1954); Concrete & Soil Research Laboratories, Madras (1945); Central Water & Power Research Station, Poona, Maharashtra (1916); Damodar Valley Corporation, Maithon, Dhanabad, Bihar (1949); Gujarat Engineering Research Institute, Baroda, Gujarat (1960); Hirakud Research Station, Hirakud, Orissa (1947); Indian Institute of Science, Bangalore, Mysore (1950); Irrigation Research Station, Poondi, Madras† (1944); Kerala Engineering Research Institute Peechi, Kerala (1960); Koyna Project Research Laboratory, Koyna Nagar, Maharashtra (1956); Land Reclamation, Irrigation & Power Research Inst., Amritsar, Punjab (1947); Maharashtra Research

Institute, Nasik, Maharashtra (1959); Mysore Engineering Research Station, Krishnarajasagar, Mysore (1945); River Research Institute, West Bengal, Calcutta (1943); River Research Station, Chandmari, Gauhati, Assam (1966); UP Irrigation Research Institute, Roorkee, U.P. (1938).

FLOOD CONTROL AND SOIL CONSERVATION

Since 1954 when the flood control programme was inaugurated on a coordinated basis, over 6,880 km. (4,300 miles) of embankments and 7,840 km. (4,900 miles) of drainage channels have been constructed in different States affording protection to about four million hectares (ten million acres) of land. Eighty town protection schemes have been taken up against floods/erosion and 4,300 villages have been raised above flood level. The approximate area benefited by flood control schemes completed every year is about 0.324 to 0.405 million hectares (0.8 to one million acre) on an average.

Against the original Third Five Year Plan provision of Rs. 610 million the outlay on the programme was to go up to Rs. 810 million. About 7 million acres had benefited from flood control schemes undertaken in the first two Plans costing about Rs. 630 million and an additional 4.5 million acres were expected to be benefited in the Third Plan with an outlay of Rs. 850 million. In the Fourth Plan outlay Rs. 1,150 million is envisaged on flood control, drainage and anti-waterlogging measures.

The total damage due to the floods during the 1968 season according to the assessment made so far was about Rs. 170 crores. Nearly half of this was accounted for by West Bengal alone. A total of 73 lakh hectares including a cropped area of 23 lakh hectares was affected. 3,436 human lives and about 1.39 lakh cattle heads were lost.

Steps are being taken to set up flood forecasting units in different parts of the country under a central programme.

Soil Erosion: The sea erosion problem received due attention and a Beach Erosion Board was set up to tackle the problem on a coordinated and scientific basis. Up to the end of the three Five Year Plans Rs. 63 million were spent on anti-erosion schemes in Kerala and a length of 45 miles was covered by the protective works.

RIVER VALLEY PROJECTS

The major river valley projects are as follows:—

(1) Beas Project, (2) Bhakra-Nangal Project, (3) Hirakud Project, (4) Damodar Valley Project, (5) Tungabhadra Project, (6) Kosi Project, (7) Chambal Project, (8) Nagarjuna Project, (9) Koyna Project, (10) Rihand Project, (11) Bhadra Reservoir Project, (12) Kakrapar Project, (13) Machkund Project, and (14) Mayurakshi Project.

Below we give notes on some individual projects.

Beas Project: Is jointly executed by the Punjab, Haryana and Rajasthan Governments with Central assistance. Estimated cost Rs. 240.50 crores. Object: To harness the waters and power potential of the River Beas. On completion the project will facilitate the irrigation of 0.53 million hectares of land in Punjab and Rajasthan and generate 6,60,000 K.W. of power besides augmenting the capacity of the Bhakra Power Generation System by 1,48,000 K.W. The irrigation and power facilities to be provided will utilize an agricultural output worth Rs. 20 crores annually. Rajasthan alone will get 0.04 million hectares of water for irrigating about 0.05 million hectares of desert land.

The project comprises two units Beas Sutlej Link Project and Beas Dam.

* Composite State.

† Now called Tamil Nadu.

Beas Sutlej Link Project : Estimated cost Rs. 110·5 crores. Consists of 62 metres High Rockfill Diversion Dam at Pandoh, about 21 kms. from Mandi in Himachal Pradesh. Expenditure incurred till end of 1966-67: Rs. 28·374 crores. Entire system is designed for diverting 7,500 cusecs of water from River Sutlej.

Beas Dam at Pong : Envisages a 380 ft. high rock fill dam near Pong village and a power house. Estimated cost: Rs. 130 crores. The reservoir created at Pong will impound 8·08 billion cubic metres of water out of which 6·78 billion cubic metres will be live storage capacity for irrigating the areas in Punjab and Rajasthan. The power plant will have six units each capable of generating 60,000 K.W. of electric energy. Approximately Rs. 42 crores have been spent till the end of 1967. The dam is planned for completion in 1973.

Bhadra Project (Mysore) : Bhadra Reservoir is one of the major irrigation projects in the Krishna Basin. The dam is situated in Lakkavalli village in Chickmagalur district. The reservoir has two canals the left bank canal and the right bank canal. The two canals will irrigate a total area of 2,44,663 acres in Chickmagalur, Shimoga, Chitradurga and Bellary districts. The total command area of the project is 3,33,300 acres.

The anticipated expenditure by the end of March 1969 is Rs. 2,890·07 lakhs and the spillover to the Fourth Plan period will be Rs. 609·93 lakhs. Potential created as on June 1968 is 2,34,533 acres. The work is almost complete. A provision of Rs. 150 lakhs has been made for the Fourth Plan period to complete the remaining work.

Bhakra Nangal Project (Punjab) : The Bhakra Nangal Project in Punjab is the biggest multipurpose river valley project in Asia and has the following main components :—(1) 740 feet high straight gravity concrete Dam at Bhakra, eight miles from Nangal, with two Power Houses at its base, one on each bank of the River. (2) A diversion Dam at Nangal, 62 miles North of Chandigarh. (3) Forty miles long Hydrel Channel from Nangal to Rupar with two low head power houses — Ganguwal and Kotla. (4) A widespread network of transmission lines with series of Grid Sub-stations. (5) 108 miles of Bhakra Main Canal and 2,790 miles long canal branches and distributaries spread over in three States — Punjab, Haryana and Rajasthan.

The whole project has been completed except the Right Bank Power House on which work is going on.

An ultimate power potential of 12,04,000 K.W. is expected by 1972 when Beas water will come into Gobind Sagar through Beas Sutlej Link. The States that will benefit are the Punjab, Haryana, Rajasthan, Himachal Pradesh, Jammu and Kashmir and Delhi.

The Project commands 6·5 million acres of new land for irrigation and will improve 3·5 million acres of land already under irrigation.

The total expenditure incurred till the end of December, 1967 was Rs. 175·44 crores against the sanctioned estimate of Rs. 175·14 crores excluding the cost of Right Bank Power House.

The Nangal Dam, the Hydrel Channel and the Bhakra Canal have already been completed.

Work on the construction of Right Bank Power House is nearing completion. There will be in all five generators each of 1,20,000 K.W. capacity, four of which have since been installed. An expenditure of Rs. 30·02 crores had been booked till the end of December 1967 against a revised estimate of Rs. 59·70 crores approximately. The entire Power House was expected to be commissioned by December 1968.

The commitments from this Project are Nangal Fertilizers 1,75,000 K.W. ; Delhi 80,000 K.W. ; Rajasthan 66,880 K.W. ; Kashmir 10,000 K.W. ; Punjab 203,350 K.W. ; Haryana 147,380 K.W. ; Chandigarh 13,060 K.W. and Himachal Pradesh 14,330 K.W.

The increase in foodgrains as a result of the irrigation from the Project is expected to be 8,50,000 tons a year. Other additional yields that will accrue from the Project are : Sugarcane 15,00,000 tons, Cotton 6,00,000 bales and pulses and oilseeds 36,000 tons.

Damodar Valley Project (Bihar and West Bengal) : The Damodar Valley Project which is to benefit the States of Bihar and West Bengal, has as its main features the construction of (a) multi-purpose storage dams with hydro-electricity plants, (b) an irrigation project with a network of irrigation canals and distributaries measuring 1,550 miles including an 85 mile long irrigation-cum-navigation canals, (c) thermal power stations and the associated transmission and distribution facilities.

The ultimate benefits include (a) effective flood control of the Damodar River, (b) irrigation of 9·73 lakh acres including 2·20 lakh acres of old irrigated area in the kharif season and 0·55 lakh acres in the rabi season resulting in an additional yield of rice, rabi crop and jute, (c) the installation of 1,061·5 M.W. of electric power (Projects taken upto Third plan), (d) cheap transport facilities through the navigation canal carrying an annual traffic through the canal of coal, sand, chemicals, food-grains etc. to the extent of nearly 2 million tons, (e) efficient drainage of about 700 square miles of water-logged area in the lower valley in West Bengal, (f) prevention of soil erosion by afforestation, (g) land reclamation and improvement, (h) anti-malarial measures and public health promotion works and (i) development of fishery, tourism etc.

The first phase of the D.V.C. Project comprises (1) a thermal power station of 172·5 M.W. capacity at Bokaro, Bihar ; (2) Tilaiya dam with a power station of 4 M.W. in Hazaribagh district, Bihar ; (3) Konar Dam 24 miles from Hazaribagh ; (4) Maithon Dam with a power station of 60 M.W. in Dhanbad District (Bihar) ; (5) Panchet Hill Dam with a power station of 40 M.W. (Initial) in Dhanbad district (Bihar) ; (6) the Durgapur Barrage and Canals in the district of Burdwan, Bankura, Hooghly and Howrah (West Bengal) and (7) the transmission and distribution system.

The Bokaro Thermal Power Station has now an installed capacity of 247·5 M.W.

The Maithon, the Panchet and the Tilaiya Power Stations have now an aggregate installed generating capacity of 104 M.W.

Irrigation projects comprising Durgapur Barrage, two main canals and distributaries totalling 1,550 miles of canals have been completed.

The Durgapur Thermal Power Station has now an installed capacity of 290 M.W. (2×75 M.W. + 1×140 M.W.) and the Chandrapura Thermal Power Station has now an installed capacity of 420 M.W. (3×140 M.W.) out of 1061 M.W. of electric power generating capacity, the thermal stations contribute 957 M.W. and hydrel stations 104 M.W.

The D.V.C. power system supplied electrical energy through an expanded network of transmission lines right upto Calcutta in the east and upto Mogalsarai in the west, 3,411 million units in 1965-66, 3,717 million units in 1966-67 and 3,725 million units in 1967-68.

The annual gross revenue from power during 1966-67 and 1967-68 was Rs. 21·00 crores and Rs. 22·65 crores respectively.

The four dams in the D.V.C. system would provide irrigation for 9.73 lakh acres of kharif and 0.55 lakh acres of rabi lands and also supply water for industrial and domestic uses. During kharif seasons of 1966-67 and 1967-68 water from Durgapur Barrage was supplied to irrigate an area of 6.90 and 7.01 lakh acres respectively. During 1967-68, an irrigational potential of 7.15 lakh acres was created.

The annual gross revenues from irrigation for the years 1966-67 and 1967-68 are Rs. 0.65 crore and Rs. 0.64 crore respectively.

The Panchet and the Maithon dams have controlled several major floods in the lower valley.

The estimated cost of the project was about Rs. 210.61 crores. The aggregate capital expenditure on the various projects upto the end of March 1968 is about Rs. 219.57 crores.

The total receipts of D.V.C. during 1968-69 have been estimated at Rs. 23.53 crores and the total estimated revenue expenditure, including provisions for the development rebate reserve and the general reserve on the power side only during 1968-69 work out to Rs. 25.39 crores.

Hirakud Dam Project (Orissa):—This project is the biggest multipurpose River Valley Project on river Mahanadi in Orissa State and is situated near Sambalpur. The main functions of the Project are flood control, irrigation and power. The project comprises the Hirakud Dam, Hirakud Canal system, Burla Power House and the Chiplima Power House.

The total culturable commandable area under Hirakud Irrigation in Sambalpur and Bolangir Districts is 3.8 lakhs of acres and the total annual irrigation potential is 6.00 lakh acres. The Hirakud Dam Project also provides regulated supply for perennial irrigation of about 9 lakhs of acres in Mahanadi Delta in the districts of Cuttack and Puri.

The Burla Power House has got 6 power units of total installed capacity of 198 M.W. and Chiplima Power House has 3 power units of total installed capacity of 72 M.W., the total installed capacity being 270 M.W. The project provides power to many industries and the rural areas of Orissa.

Mahi Scheme: The revised estimated cost of the project has been worked out to be Rs. 495 lakhs. The scheme when completed is likely to irrigate 76,000 acres of land.

Tungabhadra Project (Andhra and Mysore): The Project is now being executed by the Tungabhadra Board and the Governments of Andhra Pradesh and Mysore.

The Tungabhadra Dam across the river Tungabhadra at Mallapuram in Bellary District (Mysore State) is 8,006 feet long and 162 feet high at the deepest foundation and 116 feet high on an average above the river bed. The reservoir extends to an area of 146 square miles and has a capacity of nearly 3.1 million acre feet at the full reservoir level of 1,633.

There is only one canal on the left side. This is 127 miles in length and accommodates 7,000 cusecs for both power development and irrigation of about 5,80,000 acres of land in Raichur District of Mysore State.

There are two canals on the right side of the river, the Low Level Canal and the High Level Canal. The former feeds the power house at Hampi and irrigates lands in Mysore State and Andhra Pradesh. The net irrigable area under Low Level Canal is 92,345 acres in Mysore and 1,48,725 acres in Andhra Pradesh.

The Government of India have sanctioned the execution of High Level Canal (1st stage), which, on completion, will accommodate 2,300 cusecs at head and will irrigate 1,19,115 acres of land in Andhra Pradesh and 68,250 acres of land in Mysore. The Second Stage when completed, will bring under irrigation an additional area of 1,32,685 acres in Andhra Pradesh and 68,250 acres in Mysore State.

Hydro Electric Scheme: The Hydro Electric Scheme on the southern side consists of two Power Houses with four generators in each power house, each of 9,000 K.W. capacity making an aggregate of 72,000 K.W. The total installed capacity of the Scheme is at present 72 M.W.

On the northern side, there is one power house near the Dam with 4 units of 9,000 K.W. capacity each. It is proposed to have three more power houses on the canal. All the power houses taken together will generate 1,00,500 K.W. of power.

The cost of the sanctioned scheme is Rs. 90.67 crores (irrigation Rs. 66.75 crores; power Rs. 23.92 crores).

Benefits: About 4.5 lakh acres of land have been brought under irrigation so far. In the same way, 99,000 K.W. of power is at present being produced and supplied to the consumers. The estimated cost of the entire project when completed in all respects, is about Rs. 108 crores. It will bring 12.1 lakh acres of land under irrigation and generate 172.5 M.W. of power.

Kosi Project (Bihar): Total expenditure on the project (old scheme) upto the end of March 1968 was Rs. 68.94 crores. The Kosi canal systems on the eastern and western sides of the river have been designed to provide annual irrigation to an area of about 26 lakh acres in the districts of Saharsa, Purnea, Darbhanga and Monghyr of Bihar and Saptari of Nepal.

Chatral Canal System: As part of India's Aid to Nepal the Chatral Canal Project has been taken up. The canal will take off at 30 miles upstream of Kosi Barrage and will irrigate annually 2.12 lakh acres in the Morang and Saptari districts of Nepal. This scheme will cost about Rs. 8.91 crores (revised estimate). This scheme, when completed, would yield an additional produce of 39 lakh maunds per year valued at Rs. 4.75 crores.

Schemes to extend irrigation facilities to an area of 3.97 lakh acres between the Kosi river and the original command of Eastern Canal system has been taken up at an estimated cost of Rs. 648 lakhs including the cost of village channels. 89 per cent of the work has been completed upto March 1968.

The final solution of Kosi lies in the construction of dams in the hilly region of the river across the Kosi in Nepal.

Rajasthan Canal

(For details see under Rajasthan State.)

Nagarjunasagar Project (Andhra Pradesh):—The project is situated near Nandikonda village in Miryalguda Taluk of Nalgonda district. The project comprises the construction of a gravity type masonry dam—the tallest and largest masonry dam in the world—two irrigation canals on either side of the river and a power house with 8 generating units each with 50,000 kW. installed capacity. The main dam, when completed, will be 409 ft. high (ultimate stage), 360 ft. wide at the base and about a mile long. It will be flanked on either side by compacted earth dams. Each flanking dam will also be about a mile long. A 28-ft. roadway will run on the top of the dam linking

the flanks over the central spillway. Eight penstocks, 16 ft. in diameter will be installed in the dam.

First phase : The first phase (now in execution) of the project is expected to irrigate 21.50 lakh acres, partly for paddy and sugarcane and partly for cotton, groundnut, maize, jowar and other millets. The quantity of foodgrains production anticipated is eight lakh tons per annum under the first phase of the scheme and 12 lakh tons in the ultimate phase.

Nagarjunasagar Dam : The dam, when completed, will impound the waters of the Krishna in a 110 sq. mile man-made lake, the biggest in India and the third largest in the world. The ultimate storage capacity of the reservoir is estimated at about 9.37 million acre feet of water, thus dwarfing the Bhakra reservoir of 7.4 million acre feet of capacity.

Nagarjunasagar right canal : Under the first phase of the project (now in execution) the right canal will run to a length of 135 miles. The right canal will irrigate about

11.20 lakh acres, benefitting large tracts of land in Guntur, Nellore and Kurnool. In the ultimate phase, the canal will extend to a length of 276 miles.

Nagarjunasagar left canal : Under the first phase of the project (now in execution) the Left Main Canal will run to a length of 108 miles. The canal will irrigate about 8.80 lakh acres. In the ultimate stage it will extend to a length of 140 miles in Nalgonda and Khammam districts serving the needs of Miryalguda and Huzurnagar taluk of Khammam district and Nandigama, Tiruvur, Nuzvid and Gannavaram taluks of Krishna district.

GANDAK PROJECT

It is one of the major projects in which India and Nepal are collaborating as neighbours. Within India, it is an inter-State project in which Bihar and Uttar Pradesh are joining hands. It was expected to be ready by June 1968. The project was expected to yield benefits to seven lakh acres during 1966-67, which would go up to three million acres by 1970-71.

NET AREA IRRIGATED BY SOURCES, 1965-66 *

The following table gives the provisional figures in thousand hectares.

STATES AND TERRITORIES	CANALS			Tanks	Tube Wells	Wells	Other Sources	Total
	Govt.	Private	Total					
Andhra	1,209	17	1,226	1,189	31	424	108	2,978
Assam ¹	72	292	364	—	—	—	248	612
Bengal (West) ²	514	388	902	328	—	16(a)	184	1,430
Bihar	613	19	632	175	83	206	895	1,991
Gujarat ³	110	1	111	22	668	—	36	837
Jammu and Kashmir ³	65	214	279	1	(b)	2	6	288
Kerala	169	8	177	60	—	4	121	362
Madhya Pradesh	461	1	462	118	2	343	52	977
Maharashtra ³	215	33	248	213	—	683(a)	86	1,230
Mysore	356	5	361	325	—	163(a)	128	977
Orissa	197	28	225	495	—	38(a)	219	977
Punjab†	2,245	49	2,294	8	250	919	80	3,551
Rajasthan	487	—	487	203	6	1,017	40	1,753
Tamil Nadu	798	1	799	903	5	654	38	2,399
U.P.	2,291	9	2,300	391	905	2,000	279	5,875
Delhi	14	—	14	2	16	—	—	34
Himachal Pradesh‡	(b)	—	(b)	(b)	—	(b)	39	39
Manipur ²	—	68	68	—	—	—	—	68
Tripura	—	—	—	2	—	—	16	18
Nagaland ⁴	—	—	—	—	—	—	12	12
Pondicherry	11	—	11	6	8	(b)	(b)	25
Andaman and Nicobar	—	—	—	—	—	—	—	—
Laccadive and Amindivi Islands	—	—	—	—	—	—	—	—
Goa, Daman and Diu ⁵	—	—	—	—	—	—	8	8
All India	9,827	1,133	10,960	4,441	1,960	6,485	2,595	28,441

* Latest available. ¹ Relates to the year 1953-54. ² Figures are for 1962-63. ³ Relates to 1964-65. ⁴ Relates to 1956-57. ⁵ Ad-hoc estimates. † Composite State. ‡ Before reorganisation in Nov. 1966. (a) Includes tube wells too. (b) Less than 500 hectares.

Crop-wise Irrigation

The following are the all-India figures of crop-wise irrigation figures being in thousand hectares : Rice 13,114 ; Jowar 714 ; Bajra 318 ; Maize 767 ; Ragi 350 ; Wheat

5,238 ; Barley 1,316 ; Other cereals and millets 99 ; Grams 1,303 ; Tur or arhar 13 ; Other pulses 832 ; Total food grains 24,064.

ELECTRIC POWER DEVELOPMENT

(By courtesy of the Central Water and Power Commission, Power Wing.)

THE revised figures in respect of the aggregate generating capacity in kW for 1965-66 and the provisional figures for 1966-67 are given below: 1965-66: 90,27,019; 1966-67: 10,189,114.

The total installed plant capacity at the end of March 1967 was 10,189,114 kW, including 136,000 kW of plant in the Chola Power Station of the Central Railway and 306,000 kW of plant in the Neyveli Power Station. The net addition to generating capacity was 1,162,095 kW, which represents an increase of 11.4 per cent of the installed plant capacity in the previous year. The total power generated by all the undertakings was approximately 36,376 million kWh and the quantum of power purchased from non-utilities was 55.52 million kWh. The increase in the sales during the year was approximately 2,893 million kWh equivalent to an increase of 8.9 per cent over the net sales in the previous year.

The production and sale of electric power for the years 1965-66 and 1966-67 were as follows (in million kWh):

	Generated	Sold
1965-66	32,990.125	26,734.944
1966-67 (Provisional) ..	36,375.587	29,127.636

An analysis of electric power consumption in million kWh is given below. The figures in brackets show the percentage of total energy consumption.

	1965-66	1966-67
Domestic or Residential light and small power..	2,355.139 (8.8)	2,626.727 (9.0)
Commercial light and small power	1,650.073 (6.2)	1,819.649 (6.2)
Industrial Power ..	18,875.885 (70.6)	20,390.802 (70.0)
Traction	1,057.282 (4.0)	1,180.213 (4.1)
Public lighting	279.569 (1.0)	308.030 (1.1)
Irrigation	1,891.835 (7.1)	2,106.483 (7.2)
Water Works	625.161 (2.3)	695.732 (2.4)
TOTAL	26,734.944 (100.0)	29,127.636 (100.0)

The following statements show the number of towns and villages electrified as on 31-3-1967.

Population			Towns electrified	
			States	Union Territory
Over 100,000 .. ..	..	..	105	2
50,000-100,000 .. ..	..	..	136	3
10,000-50,000 .. ..	..	..	1,314	13
Below 10,000 .. ..	..	..	1,015	41
TOTAL .. .. .	..	..	2,570	59

Population			Villages electrified	
			States	Union Territory
Over 10,000 .. ..	..	..	202	1
5,000-10,000 .. ..	..	..	2,191	8
1,000-5,000 .. ..	..	..	25,676	326
Below 1,000 .. ..	..	..	23,717	1,971
TOTAL .. .. .	..	..	51,786	2,306

Some individual industries have power stations of their own. The number of installations and the installed capacity in respect of the following industries in kW respectively are as follows (as on 31st March, 1967):

Aluminium (P): 6; 22,734; Aluminium (S): 9; 630; Cement (P): 27; 112,244; Cement (S): 25; 630; Chemicals: 35; 30,297; Collieries: 144; 61,850; Copper (P): 1; 8,975; Copper (S): 1; †; Cotton Textiles: 330; 117,688; Engineering: 27; 7,223; Ferro-Manganese: 5; 32; Fertilizers: 5; 82,405; Gold: 1; 6,700; Iron and Steel (P): 7; 366,544; Iron and Steel (S): 18; 1,175; Jute: 73; 33,210; Oil and Petroleum: 7; 57,809; Paper: 25; 82,299; Silk: 21; 44,804; Soap: 10; †; Sugar: 141; 166,773; Tanneries: 7; 757; Wool: 10; 3,350; Mines: 6; 4,936; Miscellaneous: 8; 6,825; Total: 949; 1,219,890.

The number of undertakings reckoned on ownership basis at the end of 1965-66 and 1966-67 was distributed as follows: State Government/State Electricity Board: 23; 25; Power Corporation: 1; 1; Municipality: 47; 44; Companies: 180; 160; Total: 251; 230.

The total number of consumers at the end of 1966-67 was 9,721,951 in all (Domestic 7,082,237; Commercial 1,601,902; Industrial (including railways, tramways and public water works and sewage pumping) 370,236; Public lighting 48,509; Irrigation 619,067).

(P) Primary. (S) Secondary. † Purchasing power.

ELECTRIC POWER DEVELOPMENT

91

The State-wise analysis of plant, generation and sales for 1966-67 is as follows :—

States	Installed capacity (kW)	Energy generated (mln. kWh)	Energy sold (mln. kWh)	Capacity in Industrial Establishments (kW)	Annual per capita consumption (excluding self-gen. industries and railways (kWh)	Annual per capita consumption (including self-gen. industries and railways (kWh)
Andhra Pradesh	472,628	1,601.102	1,020.849	59,897	25.46	29.93
Assam	159,507	140.875	103.278	9,891	7.40	10.13
Bihar	139,684	418.366	2,121.886	318,508	40.18	60.49
Gujarat	658,394	2,491.824	2,019.009	86,405	84.13	95.47
Jammu and Kashmir	29,057	110.464	133.730	—	34.74	34.74
Kerala	362,600	1,083.113	901.278	18,034	46.41	49.76
Madhya Pradesh	423,110	1,436.606	1,164.022	98,906	31.32	43.31
Maharashtra	1,436,797	6,332.884	5,176.211	70,708	113.51	117.00
Mysore	430,257	2,459.743	1,503.942	41,571	56.03	58.33
Nagaland	1,238	1.877	1.744	—	4.36	4.36
Orissa	280,230	651.920	765.482	144,854	38.56	72.86
Punjab & Haryana	1,067,501	3,807.731	2,555.407	21,328	106.12	109.39
Rajasthan	91,180	159.848	318.810	47,974	13.48	21.38
Tamil Nadu	1,394,150	3,939.711	3,405.192	34,838	91.98	93.98
Uttar Pradesh	930,462	3,313.174	2,852.494	77,047	34.17	35.90
West Bengal	1,227.092	3,825.938	4,280.091	160,757	105.45	118.00
UNION TERRITORIES—						
Delhi	126,820	441.818	693.234	22,791	197.50	227.92
A. & N. Islands ^a	1,658	2.684	2.036	6,381†	25.45	25.45
Goa, Daman & Diu	5,973	8.671	15.720	—	23.82	32.47
Dadra & Nagar Haveli	—	—	0.196	—	2.80	2.80
Himachal Pradesh	1,241	3.258	35.722*	—	23.20	23.20
L., M. and A. Islands ^b	317	0.112	0.096	—	3.20	3.20
Manipur	2,557	3.414	2.356	—	2.36	2.36
N.E.F.A.	—	—	—	—	—	—
Pondicherry	—	—	49.809	—	121.49	123.02
Tripura	2,661	6.358	5.042	—	3.74	3.74
Damodar Valley Corpn.	944,000	4,134.096	—	—	—	—
TOTAL	10,189,114	36,375.587	29,127.636	1,219,890	58.04	66.17

* Estimated data. †Capacity in industrial establishments of other Union Territories. ^a Andaman and Nicobar Islands. ^b Laccadive, Minicoy and Amindivi Islands.

Installed capacity and energy generated by type of plant as on 31st March 1967 :—

States	Steam		Gas Turbine and Diesel		Hydro		Total	
	Capacity (kW)	Generation (Million kWh)	Capacity (kW)	Generation (Million kWh)	Capacity (kW)	Generation (Million kWh)	Capacity (kW)	Generation (Million kWh)
Andhra Pradesh	233,500	763.479	32,128	20.675	207,000	816.948	472,628	1,601.102
Assam	—	—	113,597	67.899	45,910	72.976	159,507	140.875
Bihar	123,770	394.248	15,914	24.118	—	—	139,684	418.366
Gujarat	609,600	2,474.894	48,794	16.930	—	—	658,394	2,491.824
Jammu & Kashmir	1,500	—	1,546	0.294	26,011	110.170	29,057	110.464
Kerala	—	—	3,600	0.376	359,000	1,082.737	362,600	1,083.113
Madhya Pradesh	286,570	1,323.853	21,540	14.288	115,000	98.465	423,110	1,436.606
Maharashtra	646,000	2,511.272	41,973	47.869	748,824	3,773.743	1,436,797	6,332.884
Mysore	—	—	12,657	3.216	417,600	2,456.527	430,257	2,459.743
Nagaland	—	—	1,238	1.877	—	—	1,238	1.877
Orissa	5,750	5.006	4,468	0.754	270,012	646.160	280,230	651.920
Punjab & Haryana	33,100	54.768	19,325	2.900	1,015,076	3,750.063	1,067,501	3,807.731
Rajasthan	46,150	111.564	45,030	48.284	—	—	91,180	159.848
Tamil Nadu	401,500	1,839.314	6,000	—	986,650	2,100.397	1,394,150	3,939.711
Uttar Pradesh	398,235	1,583.298	54,472	40.936	477,755	1,688.940	930,462	3,313.174
West Bengal	1,208,716	3,791.886	10,874	20.359	7,508	13.693	1,227,092	3,825.938
Delhi	106,000	426.244	20,820	15.574	—	—	126,820	441.818
A. & N. Islands	1,100	1.543	558	1.141	—	—	1,658	2.684
Goa, Daman & Diu	—	—	5,973	8.671	—	—	5,973	8.671

Installed capacity and energy generated by type of plant as on 31st March 1967:—(Contd.)

States	Steam		Gas Turbine and Diesel		Hydro		Total	
	Capacity (kW)	Generation (Million kWh)	Capacity (kW)	Generation (Million kWh)	Capacity (kW)	Generation (Million kWh)	Capacity (kW)	Generation (Million kWh)
Himachal Pradesh	—	—	240	—	1,001	3·258	1,241	3·258
Laccadive, Minicoy and Amindivi Islands	—	—	317	0·112	—	—	317	0·112
Manipur	—	—	1,957	3·414	600	—	2,557	3·414
Pondicherry	—	—	—	—	—	—	—	—
Tripura	—	—	2,661	6·358	—	—	2,661	6·358
Damodar Valley Corporation ..	840,000	4,014·075	—	—	104,000	120·021	944,000	4,134·096
TOTAL ..	4,941,485	19,295·444	465,682	346·045	4,781,947	16,734·098	10,189,114	36,375·587

ADMINISTRATION OF JUSTICE

THE Indian Union though a dual polity has no dual judiciary at all. The Supreme Court and the High Courts form one single integrated judiciary having jurisdiction and providing remedies in all cases arising under the constitutional law, the civil law or the criminal law. This is done in order to eliminate all diversities in remedial procedure.

The writs are now issued by the Supreme Court of India and the various High Courts in the territory of India. All laws which existed before independence continue to operate in India as before subject to adaptation and modification made therein. Article 372 of the Constitution provides *inter alia* that, subject to the other provisions of the Constitution all laws in force in the territory of India immediately before the commencement of the Constitution shall continue in force therein until altered, repealed or amended by a competent Legislature or other competent authority.

The indigenous law of India is personal and divisible with reference to the two great classes of the population, Hindu and Muslim.

SUPREME COURT

Art. 124 of the Constitution provides for the establishment of a Supreme Court of India consisting of a Chief Justice of India and seven other judges. There is provision in law for the appointment in all of 13 other judges. At present there are 11 judges including the Chief Justice (see Act 17 of 1960). Every judge of the Supreme Court shall be appointed by the President and shall hold office until he attains the age of sixty-five years. In the course of appointment of a Judge the Chief Justice shall always be consulted. Only a citizen of India who has been for at least 5 years a judge of a High Court, or for 10 years an advocate of a High Court, or a person, who in the opinion of the President, is a distinguished jurist, is qualified to be appointed judge of the Supreme Court.

A judge of the Supreme Court is not liable to be removed from his office except by an order of the President passed after an address by each House of Parliament, supported by a majority of the total membership of that House, and by a majority of not less than two-thirds of the members of that House present and voting, has been presented to the President in the same session for such removal, on the ground of proved misbehaviour or incapacity. Parliament passed a law laying down the procedure to be followed in

such cases (see Act No. 51 of 1968). The Act is known as Judges (Inquiry) Act. No person who has held office as a judge of the Supreme Court shall plead or act in any court or before any authority within the territory of India.

The Supreme Court is a court of record with all the powers of such a court including the power to punish for contempt. The seat of the Court is to be in Delhi or such other place as the Chief Justice with the approval of the President may from time to time appoint.

The Supreme Court has exclusive original jurisdiction in any dispute (a) between the Government of India and one or more States; (b) between Government of India and one or more States on the one side and one or more other States, on the other; (c) between two or more States, if and in so far as the dispute involves any question (whether of law or fact) on which the existence or extent of a legal right depends (Art. 131).

The appellate jurisdiction of the Supreme Court extends over all appeals from any judgment, decree or final order of a High Court, in civil, criminal or other proceedings, if the High Court certifies that the case involves a substantial question of law as to the interpretation of the Constitution. If the High Court refuses such a certificate the Supreme Court may grant special leave to appeal in a proper case (Art. 136). An appeal shall also lie to the Supreme Court from a High Court in civil matters, when the amount or value of the subject matter in dispute is not less than Rs. 20,000 or the High Court certifies the case to be a fit one for appeal to the Supreme Court (Art. 133).

In criminal matters under Art. 134 an appeal lies to the Supreme Court from any judgment, final order or sentence of a High Court, if the High Court has (a) on appeal reversed an order of acquittal of an accused person and sentenced him to death; or (b) has withdrawn for trial before itself any case from a subordinate court and has in such trial convicted the accused person and sentenced him to death; or (c) the High Court has certified that the case is a fit one for appeal.

For purposes of appeals to the Supreme Court, the Judicial Commissioners' Courts are to be considered as High Courts.

Under Art. 136 discretion is given to the Supreme Court to grant special leave to appeal from any judgment, decree, sentence or order, in any matter passed by any Court or Tribunal in the territory of India.

The Supreme Court has also power to review its own judgement (Art. 137).

The jurisdiction and powers of the Federal Court are also exercisable by the Supreme Court (Art. 135) including the advisory power to give its opinion on questions of law or fact referred to it by the President (Art. 143).

The law declared by the Supreme Court shall be binding on all courts in the territory of India excepting the Supreme Court itself.

Parliament has the power to legislate on the constitution, organisation, jurisdiction and powers of the Supreme Court.

Article 32 of the Constitution guarantees the right to move the Supreme Court by appropriate proceedings for the enforcement of Fundamental Rights; and for the enforcement of such rights the Supreme Court has power to issue directions or orders or writs, including writs in the nature of Habeas Corpus, mandamus, prohibition, *quo warranto* and *Certiorari* whichever may be appropriate.

Power is given to Parliament to enlarge the jurisdiction of the Supreme Court by appropriate legislation (Art. 138).

The royal prerogative to grant pardons, reprieves, respites or remissions of punishments now resides in the President (Art. 72).

Under Art. 348, all proceedings in the Supreme Court and in every High Court in India and the authoritative text of all Bills and Acts of Parliament and the State Legislatures and of all Ordinances promulgated by the President or Governors and of all orders, rules and regulations issued under the Constitution or any law shall be in the English language. If this language is to be replaced by any other language, Parliament must legislate to that effect. Parliament has passed the Official Languages Act (No. 19 of 1963). Though the Act enables the Governor of a State to authorise the use of Hindi or the official language of the State in the High Court, it does not include any provision, with respect to the language in the Supreme Court.

All authorities, civil and criminal in the territory of India, have to act in aid of the Supreme Court (Art. 144). The independence of the judges of the Supreme Court, is secured by charging their salaries on the Consolidated Fund of India, and by prohibiting any discussion in the legislature on the conduct of the judges in their official capacity.

HIGH COURTS

Every State has a High Court. However there is only one High Court for Assam and Nagaland States and also only one High Court for Punjab and Haryana. There is a separate High Court for Delhi.

Every High Court is a court of record and has all powers of such court including the power to commit for contempt of itself.

Every judge of a High Court is appointed by the President after consultation with the Chief Justice of India, the Governor of the State and the Chief Justice of the particular High Court; and he holds office until he attains the age of sixty-two years.

A person is not qualified to be appointed a judge of a High Court unless he is a citizen of India and has either held judicial office or practised as an advocate for 10 years in any of the States.

A High Court judge is not liable to be removed from his office except in the manner provided in Art. 124 (4) for the removal of a judge of the Supreme Court of India.

There is provision in the Constitution for the appointment of additional or acting judges.

The High Courts have powers of superintendence over all subordinate Courts and tribunals within their respective jurisdiction.

Legislation affecting constitution and organisation of the High Courts can be passed by Parliament alone.

On an average more than 14,000 cases are filed in the High Courts of India every month.

The Central Government has made separate judicial arrangements in the Union Territories, Goa, Daman and Diu, Himachal Pradesh, Manipur, Tripura, Andaman and Nicobar Islands and Laccadive, Minicoy and Amindivi Islands.

Under Article 241 of the Constitution, Parliament can by law constitute a High Court for a Union Territory or declare any court in any such territory to be a High Court for all or any purposes of the Constitution. Judicial Commissioner's Court in Goa, Daman and Diu is declared a High Court for certain purposes.

LOWER COURTS

The Code of Criminal Procedure provides for the constitution of inferior criminal courts styled as courts of session and courts of magistrates.

Every State, outside the towns of Madras, Bombay and Calcutta, is divided into sessions divisions consisting of one or more districts, and every sessions division has a court of session and a sessions judge, with assistants if need be. These stationary sessions courts are competent to try all accused persons duly committed, and to inflict any punishment authorised by law, but sentences of death are subject to confirmation by the highest court of criminal appeal in the State.

Magistrates' courts are of three classes with descending powers. Provision is made and largely utilised in the towns, for the appointment of honorary magistrates. In the towns of Madras, Bombay and Calcutta, Presidency Magistrates deal with magisterial cases and benches of Justices of the Peace or Honorary Magistrates dispose of the less important cases.

Next come the Subordinate Judges and Munsiffs, the extent of whose original jurisdiction varies in different parts of the country.

There are in addition a number of Courts of Small Causes, with jurisdiction to try money suits up to Rs. 500. In the towns of Madras, Bombay and Calcutta where the High Courts have original jurisdiction, Small Causes Courts dispose of money suits up to Rs. 3,000.

In Bombay and Madras there are also City Civil Courts. The City Civil Court in Bombay has a pecuniary jurisdiction of upto Rs. 25,000.

As Insolvency Courts the High Courts of Calcutta, Bombay and Madras have jurisdiction in the Presidency towns. In the mofussil similar powers are conferred on the District Courts by the Provincial Insolvency Act of 1920.

There are Coroners only for the Presidency Towns of Calcutta and Bombay. Elsewhere their duties are discharged by the ordinary staff of magistrates and police officers unaided by jurors.

SPECIAL COURTS

Labour Courts and Industrial Courts now exist in most States.

A Labour Court consists of a single judge.

These Courts decide upon disputes regarding (a) propriety or legality of an order passed by an employer, (b) the application and interpretation of standing orders, (c) they also decide disputes referred to them by Government for arbitration. Legality or otherwise of strikes or lock-outs or closure, etc. is also decided by them.

An appeal against the judgment of the Labour Courts lies to the Industrial Court. This court has also original jurisdiction regarding matters referred to it by the Government or by representative Unions. It decides upon questions of law referred to it by Wage Boards and references regarding interpretation of the Act and the Rules. It has power of superintendence over Labour Courts.

The Industrial Disputes Act was passed by the Central Legislature in 1947 for the investigation and settlement of industrial disputes.

Industrial Tribunals were established under this Act. If the conciliation bodies set up under this Act fail to bring about a settlement, the matter is referred to the Industrial Tribunals.

Neither party to a dispute is entitled to be represented by a legal practitioner except with the consent of the other party and by leave of Tribunal.

Industrial Tribunals are not permanent Courts. Whenever a matter is referred to the Government regarding an industrial dispute the Government appoints one or more persons as Industrial Tribunal to adjudicate upon the dispute.

The Industrial Disputes (Amendment and Miscellaneous Provisions) Act No. 36 of 1956 makes provision for the constitution of the following courts and tribunals:

1. Labour Courts to be constituted by the appropriate Government. A court is to consist of one judge only.
2. Industrial Tribunals. A Tribunal is to consist of one judge only. A person is not qualified to be a member of a Tribunal unless he has been judge of a High Court. The Tribunals will be constituted by the appropriate Government.
3. National Tribunals. These Tribunals will be constituted by the Central Government. Here also a tribunal is to consist of one judge only.

This Act came into force on 1st Sept., 1956.

The Industrial Disputes (Amendment) Act 41 of 1956 and the Dock Workers (Regulation of Employment) Act, 1948, are two other Acts with respect to labour cases.

Administration of labour laws is a divided responsibility. The Central Government has the following organisations for the administration of labour laws. (1) The Office of the Chief Labour Commissioner, New Delhi. (2) The Office of the Coal Mines Welfare Commissioner, Dhanbad. (3) The Office of the Coal Mines Provident Fund Commissioner, Dhanbad. (4) The Office of the Welfare Commissioner, Mica Mines Labour Welfare Fund, Dhanbad and Nellore. (5) The Office of the Chief Inspector of Mines, Dhanbad. (6) The Office of the Chief Adviser of Factories, New Delhi. (7) The Office of the Director-General, Employees' State Insurance Corporation, New Delhi. (8) The Office of the Controller of Emigrant Labour, Shillong. (9) The Office of the Director, Labour Bureau, Simla. (10) The Office of the Central Provident Fund Commissioner, New Delhi.

The State Governments also have their own organisations for the administration and enforcement of labour laws.

Juvenile offenders are tried by the Juvenile Courts.

Panchayat Courts (called Nyaya Panchayat) are in existence in many States. The members of the Panchayat Court are elected by the Village Panchayat. Sections 30-44 of the Act lay down rules about the suits that may be tried and the suits that may not be tried by the Court. A Nyaya Panchayat cannot alter or revise its decision. An appeal against a decision of the Nyaya Panchayat lies to the District Judge.

LAW OFFICIALS

The Government of India have their own law colleague in the Law Minister of the Union Cabinet. All Government measures are drafted in his Ministry after their substance is decided upon by the administrative departments concerned.

Outside the Cabinet the principal law officers of the Government of India are the Attorney-General, Solicitor-General appointed by the President. At Bombay and Calcutta the Government of India have their own law officers.

Each of the State Governments has its own Advocate-General.

In addition to the Advocate-General there is also a Government Pleader in many States. He usually belongs to the Appellate Side of the High Court while the Advocate-General belongs to the Original Side where the High Court has both Original and Appellate Sides. The Government Pleader is assisted by an Assistant Government Pleader and they look after criminal work.

The State Governments have their own law officers, in addition to the Advocate-General and the Government Pleader. The law officer is designated Remembrancer of Legal Affairs.

Sheriffs are attached to the High Courts of Bombay, Calcutta and Madras.

There are Official Assignees in three States — Maharashtra, W. Bengal and Tamil Nadu. The appointment is made by the Chief Justice of the High Court concerned.

In addition to the Official Assignee, a Deputy Official Assignee may also be appointed. Another officer of the court is the Insolvency Registrar who may be vested with the powers mentioned in section 6 of the Presidency Towns Insolvency Act.

The heirs of a deceased Hindu are entitled to get a share even in the undivided interest in the Mitakshara coparcenary property. A Hindu can make a will even of his undivided interest in the coparcenary property.

The Hindu Adoptions and Maintenance Act 79 of 1956 was passed in December 1956. Under the Act the adoption of a son or a daughter is permitted. The consent of the wife is necessary for adoption, which is now purely secular in character.

SOCIAL REFORMS

Besides these laws, Parliament has passed two important Acts relating to social reform. The Suppression of Immoral Traffic in Women and Girls' Act (No. 104 of 1956) was passed in December 1956. This Act provides in pursuance of the International Convention signed at New York on 9th May 1950 for the suppression of immoral traffic in women and girls. The Women's and Children's Institutions Licensing Act (No. 105 of 1956) was passed in December 1956. This Act provides for the licensing of such institutions and of matters relating to them.

Yet another Act, in social reform is the Probation of Offenders Act (20 of 1958).

Dowry Prohibition Act was passed in 1961.

Public Provident Fund Act was passed in 1968.

CONSTITUTION OF INDIA

STATES

INDIA, that is, Bharat is a sovereign democratic republic.

It is variously called the Republic of India, the Union of India, The Indian Union.

The Union is made up of 17 States and 10 Union Territories.

See page 1 under "Physiography" for more details.

FEDERATION

The constitution of India is quasi-federal in nature.

The distribution of power between the Centre and the local administrations follows the accepted principle that subjects which for convenience and efficiency ought to be administered on an all-India basis are vested in the Union Government, while others (of the nation-building sort) which can be conveniently administered on a local basis are vested in the State Governments.

Thus, defence, foreign affairs, transport and communications, currency and coinage, banking, customs and export duties, and the administration of justice at the higher level are all Central subjects, while State powers include those over police, public health, education, agriculture, forests and so on.

There is a third group of subjects that fall betwixt and between such as trade and industry, economic and social planning, social security and insurance, labour welfare, price control, electricity, newspapers and books and vital statistics. On these subjects both the Centre and the State can freely legislate, it being understood that whenever there is conflict between Union and State legislation the Union laws will ordinarily prevail.

Three detailed lists of subjects are drawn up, the Union List, the State List and the Concurrent List, and the residuary power rests with the Union. That is to say, if at any time, a subject which does not figure in any of the three lists, comes up for consideration the power of dealing with it lies with the Union Government.

The three lists are given in the Seventh Schedule.

It may be added that the Union List has 97 entries, the State List 65 and the Concurrent List 47.

All elections are directed and controlled by an Election Commission. Elections to the Lok Sabha and the Legislative Assemblies of the States are on the basis of adult suffrage. Seats are reserved in the Lok Sabha for the Scheduled Castes and the Scheduled Tribes.

There is a Public Service Commission for the Union and every State has a Public Service Commission. The Union Public Service Commission operates for the Union Territories as well.

In the Indian Union the rights of Indian citizenship are given to 1. One who is born in India, 2. Either of whose parents was born in India, and 3. Who has been a resident of India for five years. Provision is also made for persons who are affected by the partition of the sub-continent.

FUNDAMENTAL RIGHTS

Certain fundamental rights are guaranteed to every citizen for the first time. All citizens have equal opportunities.

Freedom of speech and expression is guaranteed, and the right to hold meetings (without arms), to form unions and associations, to move freely in India and to reside in

any part, to acquire property and to practise any profession are also assured to the citizens of India under the Constitution.

Preventive detention is also forbidden except in certain cases.

Children under the age of 14 will not be allowed to be employed in factories and forced labour like *begar* is prohibited.

India is a secular State and as such there is freedom of conscience.

Untouchability is abolished.

These fundamental rights can be enforced by the Supreme Court and by High Courts which have the authority to issue prerogative writs such as *habeas corpus*, *certiorari*, *prohibition*, etc.

It must also be pointed out that some of these fundamental rights can be suspended in case of emergency, and the remedies available for their enforcement may also be suspended by an order of the President.

The Supreme Court of India delivered an important judgement in *Golaknath* case in Feb. 1967 laying down that Parliament has no power to annul the constitution with a view to curtailing or abridging the fundamental rights.

The Scheduled Castes and Tribes have special representation in the legislatures of the country upto 1970 (see separate articles on the Scheduled Castes and Tribes). In certain tribal areas there are autonomous administrative bodies.

As for Anglo-Indians, the President may nominate not more than two members of the Anglo-Indian community to the Lok Sabha if he thinks that the community is not adequately represented. Similar power is given to the Governor of a State. The Governor can nominate one member to the Legislative Assembly. In West Bengal, however, he can nominate not more than two.

The claims of the Scheduled Castes and the Scheduled Tribes are to be considered in making appointments to services.

All reservation including reservation of seats for Scheduled and Tribal classes are to cease at the end of 1970 according to the eighth amendment to the constitution.

A special officer for the Scheduled Castes and the Scheduled Tribes has been appointed.

UNION EXECUTIVE

The executive head of the Indian Union is the President. He is elected by the elected members of the Houses of Parliament and the Legislative Assemblies of all the States. His term of office is five years, and he is eligible for re-election. Only a person who is a citizen of India and has completed the age of thirty-five years is qualified to contest the election.

He is the Supreme Commander of the Armed Forces.

He has the power to grant pardons or remission of punishment.

The President is entitled to the use of an official residence without payment of rent, and a salary of Rs. 10,000 per month and allowances. Provision has also been made by an Act of Parliament for a pension of Rs. 15,000 per annum. He is also entitled to a maximum of Rs. 12,000 per annum for the sake of secretarial staff and other expenses.

The President has the power of summoning, proroguing and dissolving Parliament. At the commencement of each session he addresses both Houses of Parliament assembled together. He has the right of sending messages to Parliament and sending back a Bill presented to him for his assent. This power however can be used by him only once.

The President has legislative powers under certain circumstances. When neither of the Houses of Parliament is in session and the President is satisfied that circumstances exist which make immediate action necessary he may promulgate an ordinance.

Such ordinance must be put before both the Houses of Parliament and will cease to operate at the expiration of six weeks from the reassembly of Parliament.

The President can also declare emergency if he is satisfied that the security of India or any part thereof is threatened either by war or internal disturbances when the legislature is in session. Such a proclamation would give additional powers to the Union executive and the Legislature.

The judges of the Supreme Court and the High Courts, the Attorney-General of India and the Comptroller and Auditor-General of India are all appointed by the President. The heads of States, i.e., Governors are also appointed by the President.

The President has the power of appointing ambassadors abroad and receiving diplomatic representatives of foreign States.

All executive action of the Government of India is taken in the name of the President and it is the duty of the Prime Minister to communicate to the President all decisions of the Council of Ministers.

Provision is made for the impeachment of the President, by Parliament, for violation of the Constitution. If such a resolution is passed by a majority of not less than two-thirds of the total membership, such a resolution has the effect of removing the President from office.

In the exercise of his functions, the President has the aid and advice of a Council of Ministers, with the Prime Minister at the head of it. The President appoints the Prime Minister and other Ministers are appointed on the advice of the Prime Minister.

The Council of Ministers is collectively responsible to the Lok Sabha (the Lower House). Every Minister must be a member of either House of Parliament, and he is required to take an oath of office and secrecy.

The salaries and allowances of Ministers are determined by Parliament.

There is a Vice-President of India, who is ex-officio Chairman of the Rajya Sabha (the Upper House). The Vice-President acts as President during a casual vacancy in the office of the President. He is elected by the members of both Houses of Parliament and his term of office is five years.

UNION PARLIAMENT

The Parliament consists of the President and two Houses known as, as already mentioned, the Lok Sabha and the Rajya Sabha. It must meet at least twice a year. The maximum strength of the two Houses is fixed at 250 (12 nominated) for the Rajya Sabha and 525 for the Lok Sabha (not more than 500 from the States and 25 from the Territories).

The Rajya Sabha is elected by the elected members of the Legislative Assemblies of the States and of the Union Territories of Himachal Pradesh, Manipur, Tripura and

Pondicherry, while the Lok Sabha is elected directly by the voters in the country. Delhi has now a Metropolitan Council.

The elections to the Lok Sabha are based on adult suffrage and joint electorates. There is no reservation of seats for any group except Scheduled Castes and Scheduled Tribes.

The Rajya Sabha is a permanent body with one-third of its members retiring every second year. The Vice-President of the Union is also the Chairman of the Rajya Sabha. The Rajya Sabha has also a Deputy Chairman.

The Lok Sabha has a duration of five years, ordinarily. There is a Speaker and a Deputy Speaker of the House, both of whom are elected by its members.

All these posts carry a salary and allowances.

Under certain circumstances, the members can be disqualified and their seats declared vacant.

All legislation requires the consent of both Houses of Parliament, and every question is decided by a simple majority of those present and voting except on amendments to the constitution.

Money Bills can be introduced only in the Lok Sabha. The Rajya Sabha can only return a bill with its recommendations to the Lok Sabha within a period of fourteen days of its receipt. Bills passed by Parliament are submitted to the President for his assent. Only on such assent being given does the Bill become law.

A Bill normally goes through the following stages. It is first published. After introduction there is a general debate. Third, there is a clause-by-clause discussion. Then it is voted upon. A specially important measure may go before a select committee or a joint select committee. A Money Bill has a slightly different passage. After it has been passed in the Lok Sabha it is sent to the Rajya Sabha which has to return it within fourteen days with its recommendations which may be accepted or rejected.

The quorum is fixed at one-tenth of the membership of the House.

The language used in Parliament is either Hindi or English.

Distribution of Seats

The distribution of seats in the Rajya Sabha is as follows:

Andhra Pradesh 18; Assam 7; Bihar 22; Gujarat 11; Haryana 5; Kerala 9; Madhya Pradesh 16; Maharashtra 19; Mysore 12; Orissa 10; Punjab 7; Rajasthan 10; Tamil Nadu 18; Uttar Pradesh 34; West Bengal 16; Jammu and Kashmir 4; Delhi 3; Himachal Pradesh 3; Manipur 1; Pondicherry 1; Tripura 1; Nagaland 1; Total 228.

The President has nominated 12 members. Thus the total of elected and nominated members is 240.

The allocation of seats in the Lok Sabha is as follows:

Andhra Pradesh 41; Assam 14; Bihar 53; Gujarat 24; Haryana 9; Jammu & Kashmir 6; Kerala 19; Madhya Pradesh 37; Maharashtra 45; Mysore 27; Nagaland 1; Orissa 20; Punjab 13; Rajasthan 23; Tamil Nadu 39; Uttar Pradesh 85; West Bengal 40; Andaman and Nicobar Islands 1, Chandigarh 1, Dadra & Nagar Haveli 1; Delhi 7; Goa, Daman & Diu. 2; Himachal Pradesh 6; Laccadive, Minicoy and Amandivi Islands 1; Manipur 2; Pondicherry 1; Tripura 2; NEFA 1; Total: 521.

Out of these 37 are reserved for the Scheduled Tribes and 75 for the Scheduled Castes.

Parliament's control over the administration is also exercised through a series of committees. The Committees can summon witnesses or require documents to be produced. There is a Committee on Privileges which sees to breaches of Parliamentary privilege, a Business Advisory Committee which helps the Ministry of Parliamentary Affairs in drawing up the programme for a session.

Two very important Committees are the Public Accounts Committee and the Estimates Committee. They are elected by the House of the People and Ministers are barred from membership. The Public Accounts Committee ensures that money is spent for the purpose for which Parliament has voted it, and criticises cases of waste, or extravagance. The Estimates Committee examines possibilities of economy and reform in financial administration and the manner in which estimates may be presented to Parliament.

The programme of work for any session is worked out by the Ministry of Parliamentary Affairs.

SUPREME COURT

(See under 'Administration of Justice').

STATE GOVERNMENT

The 17 States have Governors at their heads, the Union Territories Andaman & Nicobar Islands, Manipur and Tripura have Chief Commissioners, Delhi, Himachal Pradesh, Goa and Pondicherry have Lieutenant-Governors, Laccadive and Dadra have Administrators.

Zonal Councils

There are five zones : Northern zone (Punjab, Rajasthan, Kashmir, Delhi and Himachal Pradesh); Central zone (Uttar Pradesh and Madhya Pradesh); Eastern zone (Bihar, West Bengal, Orissa, Assam, Manipur and Tripura); Western zone (Gujarat, Maharashtra and Mysore); Southern zone (Andhra Pradesh, Tamil Nadu, and Kerala and also Mysore as a permanent invitee).

(More details were given in the previous edition of the Directory).

States

The Governor of a State is appointed by the President. Executive power is vested in the Governor who is appointed for a term of five years, ordinarily. Only a citizen of India and one who has completed 35 years of age, is eligible for such an appointment.

The Governor, like the President, has power to grant pardon, etc. He will have a Council of Ministers to aid and advise him. The Governor also appoints an Advocate-General for the State.

Legislature

Ten States, Andhra Pradesh, Bihar, Kashmir, Madhya Pradesh, Tamil Nadu, Maharashtra, Mysore, Punjab, Uttar Pradesh, West Bengal* have two Houses of Legislature; the others, only one. The two Houses are called the Legislative Assembly (sometimes Vidhan Sabha) and the Legislative Council (sometimes Vidhan Parishad). The former has a duration of five years, while the latter is a permanent body with one-third of the members retiring every second year.

The minimum strength of an Assembly is 60 and the maximum 500.

The minimum strength of a Council is 40, and the maximum one-third of the State Assembly.

An Assembly is elected directly on a basis of adult franchise with reservation of seats for the Scheduled Castes and Tribes. The composition of a Council is more

complicated. About a third are elected by the Assembly, another third by local authorities (municipalities, district boards), about a twelfth by registered teachers in schools not lower than the secondary school standard, and about a twelfth by registered graduates of not less than three years' standing. And the rest are nominated by the Governor from among persons who have distinguished themselves in art, science, literature, co-operation and social service.

The Legislature must meet at least twice a year. While the Assembly consists of members who are directly elected from territorial constituencies, the Council consists of members nominated by the Governor, elected by the Assembly and of representatives of local bodies and special interests.

The legislature can frame its own rules of procedure but it is more or less the same as in Parliament. The quorum for a meeting is one-tenth of the membership or ten whichever is higher.

In case of disagreement, if the Bill is passed a second time after three months of its reference to the Council it automatically becomes law after one month of its passage in the lower house.

The State legislature too has its Committees like Parliament.

For the number of seats (including nominated members) in the Legislative Assembly and the Legislative Council see under each Assembly or Council in the article "Legislative Assemblies and Legislative Councils".

About the Kashmir Assembly it may be mentioned that 25 seats are now vacant waiting to be filled in by members from that part of Kashmir now under occupation by Pakistan troops.

The effective strength of the Assembly is 75.

The right of summoning, proroguing and dissolving the legislature is vested in the Governor, who addresses the legislature at the commencement of each session.

Like the Parliament there is a Speaker, a Deputy Speaker, a Chairman and a Deputy Chairman for the Legislative Assembly and the Legislative Council respectively. These officers of the legislatures are entitled to salary and allowances.

The language in the legislature can be either Hindi or English or any other language allowed by the Speaker.

The State Legislatures cannot discuss the conduct of any judge of the Supreme Court or of a High Court in the discharge of his duties.

As the Governor is a part of the legislature, he has certain legislative powers. He can promulgate ordinances during the recess of the legislature; such ordinances must be placed before the legislature and cease to operate at the expiration of six weeks from the reassembly of the legislature.

The salary of the Governor is Rs. 5,500 per month and he is also entitled to certain allowances.

UNION TERRITORIES

(See page 1 under "Physiography".)

There are special provisions for Hill Areas of Manipur (Section 52).

The Act also provides for appointment of a Judicial Commissioner.

Provision is also made for introduction of President's rule in case of failure of constitutional machinery in the Union Territory.

* The West Bengal Assembly has passed a resolution to dissolve the Legislative Council. The Central Government's approval is awaited.

There is a High Court for each State and a Judicial Commissioners' Court each for the Union Territories of Manipur, Tripura and Goa, Daman and Diu.

The salary of a Chief Justice of a State is Rs. 4,000, and of a High Court Judge Rs. 3,500.

A High Court for Delhi and Himachal Pradesh is constituted under an Act of Parliament.

EMERGENCY PROVISIONS

If the President is satisfied that a grave emergency exists, and the security of India or any part thereof is threatened either by war or internal disturbance, he may make a declaration to that effect. Such proclamation must be approved by both the Houses of Parliament, before the expiration of two months, otherwise it ceases to operate at the end of that period. As a result of this proclamation Parliament will be authorised to legislate on items included in the State list and the President, to issue directions to the Governor. The President of India made a Proclamation of Emergency in October 1962 after the Chinese aggression.

The President may proclaim a failure of constitutional machinery in a State if he learns that the Government of the State cannot be carried on according to the provisions of the constitution. If this is done, President's rule will be introduced in the State. Upto Feb. 1968, there have been 16 cases of failure of constitutional mechanism in the States.

This, however, would not be applicable to the functions of the High Courts. Somewhat similar provision is also made for financial emergency.

AMENDMENT OF THE CONSTITUTION

For purposes of amendment the items are divided into three classes with a different procedure for each class.

For amendment of the provision with respect to the Supreme Court and the High Courts, the distribution of legislative powers between the Centre and the States, the representation of the States in Parliament, etc., the amendment must be passed by both the Houses of Parliament by a majority of the total membership of the House and by a majority of two-thirds of the members present and voting, and must further be ratified by the legislatures of not less than one-half of the States.

In other cases no reference to the State legislatures is necessary. Parliament by itself can amend the Constitution in the manner mentioned above. In some cases amendments can be effected even by a bare majority such as is required for the passing of any ordinary law. The Supreme Court in Golaknath case (Feb. 1967) laid down that Parliament has no power to curtail fundamental rights.

There were 21 amendments to the constitution upto the end of September 1967.

SOME ALL INDIA CORPORATIONS

AGRICULTURAL REFINANCE CORPORATION

Sidhwa Building, 2nd Floor, Post Box No. 6111, Colaba, Bombay-5.

Objects: The Agricultural Refinance Corporation is primarily a refinancing agency and its object is to provide financial accommodation of a medium-term or long-term nature to the various special schemes of agricultural development which cannot be satisfactorily financed by the existing credit agencies either on account of the volume of funds involved or the terms and conditions of repayment or because the projects as such cannot be brought within the normal rules of business under which the land mortgage banks and State Co-operative banks are functioning.

CEMENT CORPORATION OF INDIA LTD.

(A Govt. of India Undertaking under the Ministry of Industrial Development and Company Affairs)

'Herald House', 5-A, Bahadur Shah Zaffar Marg, New Delhi-1.

It is setting up two cement plants in the public sector. Work for erection of two standard 600 tons/day capacity cement plants, one each, at Kurkunta (Mysore) and Mandhar (M.P.) has already started. Mandhar plant is expected to come into production by end of 1969 and Kurkunta Plant by middle of 1970.

CENTRAL ROAD TRANSPORT CORPORATION LIMITED

4, Fairlie Place, Calcutta 1.

Authorised capital: Rs. 2 crores divided into 2 lakh equity shares of Rs. 100 each.

Main Function: To supplement the road transport capacity in the eastern sector of the country. The Corporation has a fleet of about 280 Leyland and TMB trucks.

Besides, 171 gift trucks received by the Corporation through the Govt. of India are being utilised for movement of foodgrains in Gujarat and Maharashtra. The trucks of the Corporation are at present plying in West Bengal, Assam, Orissa and Bihar.

CENTRAL WAREHOUSING CORPORATION

(A Govt. of India Undertaking)

C-90, New Delhi South Extension Part II, New Delhi-16.

The main aims and objects of the warehousing scheme are:—

- (i) To help storage of agricultural produce and other commodities as are declared to be "Notified Commodities" by the Central Government under Entry 33 of the concurrent list of the Seventh Schedule of the Constitution by notification in the Government Gazette, on modern scientific lines so as to avoid loss due to dampness, pests, etc.;
- (ii) To assist the depositors to secure cheap credit, avoid distress selling and sell his produce as and when the market is favourable to him and to undertake disinfection service outside its warehouses and also to act as storage agent on behalf of a Government Company or a body corporate.

By the end of March, 1968 the total built up capacity owned by the Corporation was 6,51,470 tonnes.

State Corporations:—The State Governments have with the approval of the Central Warehousing Corporation established a Warehousing Corporation in each State.

The 15 S. W. C. had, by the end of March 1968, set up 500 warehouses, 129 sub-warehouses and a cold storage with a total storage capacity of 7,38,141 tonnes including owned built up capacity of 2,27,456 tonnes.

DEPOSIT INSURANCE CORPORATION

'Vidyut Bhavan', B.E.S.&T. Bldg., Pathakwadi,
P. Bag No. 2810, Bombay-2.

Main object : To give a measure of protection to depositors, in particular small depositors, from the risk of loss of their deposits in the event of a bank's inability to meet its liability.

The Corporation has a capital of Rs. one crore.

EXPORT CREDIT & GUARANTEE CORPORATION LTD.

(A Government of India Concern)
4, Rampart Row, Bombay 1.

Object : To facilitate the growth of India's export trade by providing credit insurance cover to Indian exporters and furnishing guarantees to banks in order to assist Indian exporters to get credit facilities necessary for expanding their export trade.

THE FILM FINANCE CORPORATION LTD.

"White House", 91, Walkeshwar Road,
Bombay 6.

Object : To provide finance for the production of films of good standard and quality. It has also approved during the year 1967-68, a scheme for financing the purchase of production and projection equipment.

THE FOOD CORPORATION OF INDIA

1, Bahadur Shah Zaffar Marg,
New Delhi-1.

The Food Corporation of India is the largest single foodgrain trading agency in the country. The Corporation was set up to undertake purchase, storage, movement, distribution and sale of foodgrains and other foodstuffs.

The purchase and sales turnover of the Corporation for 1967-68 were Rs. 438 crores and Rs. 384 crores respectively.

The Corporation has set up an administrative and operational network of two zonal offices, one each at Calcutta and Madras, 14 regional offices, 93 district offices, over 500 depots and storage centres and over 6,000 purchase points in various parts of the country.

The Corporation has a working capital of Rs. 39 crores, as on March 31, 1968.

Three other projects undertaken by the Food Corporation during the last two years relate to the setting up of 30 mechanical paddy drying centres in Thanjavur district, Tamil Nadu, steps taken to instal by 1970-71 24 modern rice mills in various parts of the country, and the manufacture and marketing of protein-rich blended flour.

The total storage capacity, owned and hired, by the Corporation at the end of 1968 was 42.80 lakh tonnes. Another 8.60 lakh tonnes storage capacity is being added during 1969 under a three-phase construction programme.

THE HANDICRAFTS & HANDLOOMS EXPORTS CORPORATION OF INDIA LIMITED

Lok Kalyan Bhavan,
11A, Rouse Avenue Lane, New Delhi 1.

The Corporation undertakes direct export of handicrafts and handloom goods, with the main object of introducing new items and exploring new markets.

The Corporation has sample offices-cum-retail shops in New York, Boston, Paris and a carpets warehouse in

Hamburg. The Corporation has shops in Montreal and Nairobi in collaboration with the State Trading Corporation of India Ltd.

THE INDIAN MOTION PICTURES EXPORT CORPORATION LTD.

(Registered Office)

Harchandrai House, 1st Floor, 81, Maharshi Karve Road,
Bombay 20.

The Corporation, a subsidiary of the State Trading Corporation, is primarily intended as a trading body. It also performs the functions of the Export Promotion Organisation in the interest of increasing the export of Indian films to the traditional markets and exploration of new markets for Indian films. Furthermore, the Corporation has been empowered to execute agreements with foreign organisations for the import or export of films.

INDIA TOURISM DEVELOPMENT CORPORATION LTD.

(A Government of India Undertaking)

Jeevan Vihar, 3, Parliament Street, New Delhi-1.

The Corporation has taken in hand the construction of hotels at Calcutta, Bombay, Srinagar (Kashmir), Kovalam Sea Beach (Kerala), Varanasi, Bangalore, Panaji (Goa). It runs tourist bungalows at various places in the country. It also undertakes several commercial activities, such as production of tourist publicity literature e.g. guide books, diaries etc. For the entertainment of the tourists, it runs the Sonet-Lumiere spectacle at Red Fort, Delhi and is going to mount similar shows in other parts of the country. The Corporation runs duty-free shops at Santa Cruz Airport (Bombay), Dum Dum Airport (Calcutta) and Palam Airport (New Delhi) for sale of imported and selected indigenous handicrafts to the tourists against payments in foreign currency. It also provides special transport facilities to tourists and has a fleet of luxury air-conditioned cars and delux coaches which are hired out to the tourists for sightseeing tours in Delhi and package tours to places of tourist attraction.

THE INDUSTRIAL CREDIT & INVESTMENT CORPORATION OF INDIA LTD.

163, Backbay Reclamation, Bombay 1.

Object : To assist industrial enterprises in the private sector by providing finance in the form of long or medium-term loans or equity participations, sponsoring and underwriting new issues of shares and securities, guaranteeing loans from other private investment sources, furnishing managerial, technical and administrative advice to Indian industry.

INDUSTRIAL DEVELOPMENT BANK OF INDIA

Post Box No. 1241

Reserve Bank Building, Bombay-1.

The Industrial Development Bank of India (IDBI) is both an apex institution, co-ordinating the operations of banks and other financial institutions providing term finance to industry, and an agency providing direct financial assistance by filling in the gaps that remain after taking into account the assistance available from other institutions. It is a wholly-owned subsidiary of the Reserve Bank of India.

The operations of the IDBI fall into two broad groups : (i) assistance to other financial institutions and (ii) direct assistance to industrial concerns, either on its own or in participation with other institutions.

Assistance to other financial institutions covers such activities as refinancing of loans given by other eligible institutions, subscribing to their shares and bonds as well as guaranteeing obligations of their customers against their counter guarantees.

Direct financial assistance to industrial concerns is given by way of (i) granting loans, (ii) subscribing to, purchasing or underwriting shares, bonds or debentures, and (iii) guaranteeing deferred payments due from industrial concerns to third parties and loans raised by them in the open market or from financial institutions. On 1st April 1966, the IDBI introduced a scheme for participating in industrial loans and guarantees, to supplement its refinance operations with a measure of risk-sharing with other institutions on a systematic basis.

THE INDUSTRIAL FINANCE CORPORATION OF INDIA

Head Office: Burmah-Shell House (Annexe II), Connaught Circus, New Delhi. *Branches:* Bombay, Calcutta and Madras.

IFC specialises in supplying Indian Industries with medium and long-term capital. Its activities include:—

(a) Granting of loans or subscribing to debentures in rupee currency; (b) Guaranteeing deferred payments in respect of machinery imported from abroad or purchased in India; (c) Granting of loans in foreign currency; (d) Guaranteeing loans raised from foreign banks or Financial Institutions in foreign currency; (e) Underwriting of equity, preference or debenture issues; and (f) Subscribing to equity or preference capital.

MACHINE TOOL CORPORATION OF INDIA LIMITED

(A Govt. of India Undertaking)
Mayo College Link Road, Ajmer.

Under this project, a total of 680 Grinding Machines like Universal Tool Grinders, Vertical Surface Grinders, Rotary Stationary Tables, Surface Grinders, Centreless Grinders, Crankshaft Grinders, Internal Grinders, and Vertical Honing Cutter-head Grinding Machines as well as a large variety of special accessories are expected to be manufactured every year. This Company's plant will provide employment to approximately 1,700 persons and will also give plenty of scope for the development of ancillary industries in and around Ajmer.

THE MINERALS & METALS TRADING CORPORATION OF INDIA LTD.

Express Bldg., 9 & 10, Bahadur Shah Zaffar Marg, New Delhi-1.

The Corporation undertakes export of minerals and ores and import of Steel and industrial raw materials.

NATIONAL BUILDINGS CONSTRUCTION CORPORATION LIMITED

44, Ring Road, Lajpat Nagar III, Post Box No. 3044, New Delhi-24.

(Under the Ministry of Works, Housing and Supply).

Objects: (a) to improve the quality of construction works; (b) to bring down construction costs; (c) to take up construction work in border areas and inaccessible places where private contractors quote fancy rates; and (d) to take on the responsibility for supervising the works in such a way that the clients reduce their supervisory engineering personnel so as to bring down the ultimate construction costs.

The Corporation has set up a mechanised brick plant in Delhi to produce over four crores of bricks per year.

NATIONAL COAL DEVELOPMENT CORPORATION LTD.

Darbhangha House, Ranchi.

N.C.D.C. operations extend to four states viz. Bihar, Madhya Pradesh, Orissa and Maharashtra.

The most important of N.C.D.C. activities has been the opening of deep shaft mines for producing coking coal in the Central Jharia coalfields (Dhanbad, Bihar) with Polish collaboration. N.C.D.C. expects to produce about 12 million tonnes of coking coal by the end of the Fourth Plan. N.C.D.C. has at present one coal washery in operation at Kargali and three under construction—the one at Gidi with Polish collaboration, the other at Sawang and the third at Kathara with Soviet collaboration. Of these, the Kathara washery, having an annual capacity of three million tonnes of raw coal, will be the largest.

NATIONAL CO-OPERATIVE DEVELOPMENT CORPORATION

C 56, South Extn. II, New Delhi-16.

Functions: To plan and promote programmes for the production, processing, marketing, storage, export and import of agricultural produce and notified commodities through cooperative societies. In this connection, the Corporation is specifically empowered to undertake the following activities:—

- to advance loans or grant subsidies to State Governments for financing cooperative societies and for employment of staff for implementing programmes of cooperative development;
- to provide funds to State Governments for financing cooperative societies for the purchase of agricultural produce and notified commodities on behalf of the Central Government; and
- to plan and promote programmes, through cooperative societies for the supply of seeds, manures, fertilisers, agricultural implements and other articles for the development of agricultural produce.

THE NATIONAL INDUSTRIAL DEVELOPMENT CORPORATION LTD.

P.O. Box No. 458, Udyog Bhavan,
Maulana Azad Road, New Delhi.

Main functions are (a) provision of consultancy and engineering services and (b) the grant of special loans to certain selected industries for the purpose of modernisation, rehabilitation, etc.

The Corporation is acting as the agency of the Government of India for the grant of loans to jute and cotton textile industries for modernisation and rehabilitation and to machine tool units for expansion also.

NATIONAL MINERAL DEVELOPMENT CORPORATION LIMITED

61, Ring Road, Lajpat Nagar III, New Delhi-14.

Administrative Ministry: Ministry of Steel, Mines & Metals.

Functions: To exploit minerals in the public sector, excluding copper, coal, lignite, oil and natural gas, and for this purpose, the Corporation may purchase, take on lease or otherwise acquire mines for prospecting and developing, and work them for producing minerals.

The following projects have so far been assigned to the Corporation:

- Kiriburu Iron Ore Project, Kiriburu (Bihar);
- Diamond Mining Project, Panna (Madhya Pradesh);

- (iii) Iron Ore Project, Bailadila (Madhya Pradesh);
 (iv) Feasibility studies on rock phosphate in Mussoorie (Uttar Pradesh); diamonds in Andhra Pradesh, iron ore in Ramandrug (Mysore) and Mangtolai (Bihar).

NATIONAL PROJECTS CONSTRUCTION CORPORATION LTD.

E9, Defence Colony, New Delhi 3.

(Under the Union Ministry of Irrigation & Power)

Main object: To provide the Central and State Governments with an organisation capable of undertaking the execution of River Valley Projects and allied Civil Engineering works requiring high technical skill, strict adherence to specifications and quality standards.

NATIONAL RESEARCH DEVELOPMENT CORPORATION OF INDIA

Mandi House, Lytton Road, New Delhi 1.

Main function: To stimulate development and commercial exploitation of patents and inventions arising from national research efforts and where feasible, in the public interest, of patented inventions from individuals also.

The Corporation's another major activity is development of scientific research by arranging pilot plant and instituting developmental projects. Till now, the Corporation has instituted 20 projects at a cost of about Rs. 62.53 lakhs.

NATIONAL SEEDS CORPORATION LIMITED

F44-A, South Extension Part I,
Ring Road, New Delhi-3.

Under the Ministry of Food, Agriculture, Community Development and Co-operation (Department of Agriculture).

The Corporation concentrates on production of Foundation Seed of promising varieties evolved by research and aims to introduce the quality concept of "certified seed" in the country. It now produces foundation seed stocks of hybrid maize, sorghum (jowar), bajra, jute, berseem, paddy and wheat and other fodder crops, and some of the vegetables. It also produces certified seeds of some of these crops.

THE NATIONAL SMALL INDUSTRIES CORPORATION LTD.

Near Industrial Estate, Okhla, New Delhi 20.

Main objects: To assist, counsel, finance and promote the interest of small industries in the country.

The Government Purchase Division of the Corporation maintains liaison with D.G.S. & D. Railways and Posts and Telegraph Dept., in order to assist small scale industries in procuring government contracts.

NATIONAL TEXTILE CORPORATION LIMITED

(A Government of India Undertaking)
Udyog Bhavan, New Delhi

Main object: To manage textile mills which may be taken over under the Cotton Textile Companies (Management of Undertakings and Liquidation or Reconstruction) Act, 1967 and also, in due course, to set up new textile mills in the public sector.

REHABILITATION INDUSTRIES CORPORATION LIMITED

(A Govt. of India Undertaking).
25, Free School Street, Calcutta 16.

Principal object: To create employment opportunities through industries for the large number of unemployed and partially employed displaced persons from East Pakistan as well as to promote or advance the setting up of

industries to provide employment to the migrants from West Pakistan (who have entered Indian territory as a result of the recent conflict with Pakistan), repatriates from Burma & Ceylon and persons of Indian origin migrated from other countries with the intention of permanently settling in India.

THE STATE TRADING CORPORATION OF INDIA LTD.

Express Bldg., 9 & 10, Bahadur Shah Zafar Marg,
P. B. No. 79, New Delhi 1.

The central aim of the Corporation is to broaden and enlarge the scope of Indian exports and to arrange for essential imports on an economical basis.

UNIT TRUST OF INDIA

Head Office: Bombay Life Building, 45, Veer Nariman Road, Bombay-1.

Basic objective: To afford the small investor a means of acquiring a share in the widening prosperity based on steady industrial growth of the country which combines the advantages of a minimum risk and a reasonable return.

A Unit Trust pools the savings of the community and invests them in securities of various types. To pool the savings, the Trust sells 'units'. All units rank equal for the distribution of income, regardless of when they are acquired. The Trust offers one other important and unique advantage: it is always ready both to sell and buy its units at prices published by it. A Unit holder is thus assured complete liquidity for his investment.

Some Salient Features: Besides the Trust's offices at Bombay, Calcutta, Delhi and Madras, units are on sale at all the branches of the numerous leading banks which have contributed to the initial capital of the Trust and at over 14,000 post offices throughout the country. Units can also be obtained through 266 'approved' brokers on the recognised stock exchanges and 1,181 individual agents appointed so far, by the Trust.

During the four years i.e. from July 1, 1964 upto June 30, 1968, sales of units aggregated Rs. 45.87 crores. In the fifth year, during the first quarter July-September 1968 sales of units amounted to Rs. 11.04 crores. Allowing for repurchases, units sold and outstanding, as at the end of September 1968, amounted to over Rs. 51 crores, the number of unit holders being 2,49,145.

The Trust is exempt from payment of income-tax and other taxes on income.

Income upto Rs. 1,000 from the Unit Trust received by an individual unit holder is free from income tax irrespective of the amount of his other income. That is, income upto Rs. 1,000 from units is not included in the computation of the total income for purposes of income tax.

Units can be sold back to the Unit Trust of India any time. The sale and repurchase prices of units are determined in accordance with the provisions laid down in the Unit Scheme and are announced daily.

Transfer of units to third parties is possible. A unit holder can also transfer units in favour of a bank for purposes of borrowing.

URANIUM CORPORATION OF INDIA LIMITED

P.O. Jaduguda Mines, Dist. Singhbhum, Bihar.

It is a wholly-owned Government of India enterprise under the Department of Atomic Energy. Its objectives are to provide the Uranium requirements for the Atomic Energy Programme of the country. The Corporation is to mine and process Uranium Ore and other ores and minerals containing Uranium in any form.

STATE CORPORATIONS

ANDHRA PRADESH INDUSTRIAL DEVELOPMENT CORPORATION LIMITED

B-1-174, Fateh Maiden Road, Hyderabad-4
(Andhra Pradesh)
(A State Government Undertaking)

Main functions: (a) Provide financial assistance; (b) Underwrite new issues of shares and securities; (c) Participate in the share capital of new industrial projects with or without controlling interest; (d) Promote industries directly in collaboration with private entrepreneurs.

THE ANDHRA PRADESH MINING CORPORATION LTD.

Fateh Maidan Road, Hyderabad-4.

Objects: Prospecting and exploitation of some of the important minerals in the State. Setting up of mineral based industries with the collaboration of private sector wherever desirable and possible.

ANDHRA PRADESH STATE FINANCIAL CORPORATION

5-9-194, Chirag Ali Lane, Hyderabad-1.

Object: Financial assistance to all medium and small scale industries, hotel industry (Tourist hotels only) established within the State.

THE ASSAM FINANCIAL CORPORATION

('Glenerquart,' Shillong)

Aims and Objects: To contribute to the industrialisation of the States of Assam, Tripura and Manipur by providing credit, medium and long term to industrial concerns.

ASSAM GOVT. CONSTRUCTION CORPORATION LTD.

Shillong (Assam)

Objects: To construct, execute, carry out, improve, work, develop, administer, manage or control in Assam and elsewhere works of all kinds and to do other business.

BIHAR STATE AGRO-INDUSTRIES DEVELOPMENT CORPORATION LIMITED

Nageshwar Colony, Boring Road, Patna.

To promote, develop, establish, execute, operate and otherwise carry out projects, schemes, industries, business and activities which in the opinion of the Company is likely to—

accelerate and increase agricultural production; contribute to the production of subsidiary and supplementary food;

increase availability of supplies of food whether principal, ancillary, supplementary or substitute, in particular in the State of Bihar; contribute to the agro-industrial development of Bihar.

BIHAR STATE FINANCIAL CORPORATION

Fraser Road, Patna.

BIHAR STATE INDUSTRIAL DEVELOPMENT CORPORATION LTD.

Hasan Manzil, Fraser Road, Patna.

Objects: Setting up, owning and operating on behalf of the Government, industrial undertakings in the medium

and large-scale industries sectors. The Company has at present two factories under operation:—(i) Bihar State Superphosphate Factory at Sindri, which produces superphosphate and sulphuric acid; and (ii) High Tension Insulator Factory at Ranchi, which produces high Tension and low tension electric insulators.

A third unit namely Electric Equipment Project is being set up by the Company at Ranchi.

The Company also assists the private sector in setting up new industrial undertakings by extending financial assistance in the form of loan, contribution to the share capital and underwriting of shares.

THE BIHAR STATE SMALL INDUSTRIES CORPORATION LTD.

Firdaus Building, Exhibition Road, Patna.

Activities: Regular manufacturing of small industries products like bicycles, auto-batteries, locks, agricultural implements, wooden furniture, hosiery goods, cottage industries and handicrafts products and their marketing.

GUJARAT EXPORT CORPORATION LIMITED

First Floor, Industry House, Near Natraj Theatre, Ranchhodlal Marg, G. P. O. 290, Ahmedabad 9.

Objects: For facilitating, promoting and expanding the export trade. It undertakes direct exports including marketing execution of orders, shipping, foreign exchange matters etc. procured by the Corporation. It also promotes export trade by helping the manufacturers. It promotes the export trade products manufactured/produced/processed in the State of Gujarat.

It also provides assistance in connection with finance, raw materials, railway freight, etc. for the export trade.

GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION

Fadia Chambers, Ashram Road, Navrangpura, Ahmedabad-9.

Functions: (1) generally to promote and assist in the rapid and orderly establishment, growth and development of industries, (2) to establish and manage industrial estates at places selected by the State Government, (3) develop industrial areas selected by the State Government, and (4) develop land on its own account or for the State Government, for the purpose of facilitating the location of industries thereon.

GUJARAT MINERAL DEVELOPMENT CORPORATION LIMITED

"Shiva-Prasad", Opp. Sardar Patel Stadium, Navrangpura, Ahmedabad-9.

Aims and Objects: To undertake mining and development of minerals in the State of Gujarat.

The Corporation has undertaken the working of the Silica-sand Project at Chotila Taluka of Surendranagar Dist. for mining of Silica-stone and Fluorspar Project at Ambadungar in Chhota-Udepur Taluka for mining and beneficiation of fluorspar deposits. The Fluorspar Beneficiation Project is expected to commence production during the year 1970.

GUJARAT SMALL INDUSTRIES CORPORATION LTD.

Ambica Nivas, Ashram Road, Navrangpura,
Ahmedabad 9.

THE GUJARAT STATE FINANCIAL CORPORATION

Opp. Relief Cinema, Relief Road, P.O. Box 262,
Ahmedabad.

Object: Financial assistance to small, medium and large scale industries and underwriting of shares of industrial units in Gujarat, guaranteeing deferred payment on machineries acquired in India and subscribing the debentures of industrial concerns.

HARYANA FINANCIAL CORPORATION

Kothi No. 45, Sector 5, Chandigarh.

This Corporation has been set up to cater to the financial requirements of small and medium scale industries located in the State of Haryana.

THE HARYANA STATE SMALL INDUSTRIES & EXPORT CORPORATION LIMITED

1st Floor, P. N. Bank Building, Bank Square,
Sector 17-B, Chandigarh.

Objects: To help the small scale industry of Haryana to develop. Its functions would be to stock raw materials, both scarce and non-scarce, as also to give machinery on hire purchase, market goods of small scale industries and to help small scale industry in several ways. In addition, it will also market the goods of large, medium and small scale industries for export markets.

JAMMU & KASHMIR STATE FINANCIAL CORPORATION

P.W.D. Buildings, Residency Road, Srinagar.

Aims and objects: To stimulate the establishment of small and medium scale industries and expansion and modernisation of existing industries by providing financial assistance on medium and long term basis. Loans are also granted to hotel, houseboat and transport industries.

KERALA FINANCIAL CORPORATION

K.F.C. Buildings, Vellayambalam,
Trivandrum-1.

The Corporation was started with the object of providing financial assistance in one from or other to industrial concerns established or to be established in order to quicken long term credit to industrial concerns in Kerala State in need of financial assistance and the pace of industrialisation of the State.

KERALA STATE INDUSTRIAL DEVELOPMENT CORPORATION LTD.

Vellayambalam, Trivandrum-1.

Joint Stock Companies registered in India and Co-operative Societies which are engaged or have for their objects the establishment and operation of industries and have a share capital of not less than Rs. 5 lakhs are eligible to receive assistance from the Corporation.

The assistance will be given to large-scale and medium sized industries. It will normally entertain applications for loans from industrial concerns only if the amount involved exceeds Rs. 10 lakhs in the case of Private Limited Companies and Rs. 20 lakhs in the case of Public Limited Companies.

KERALA STATE SMALL INDUSTRIES CORPORATION LIMITED

Barton Hill Jn., Trivandrum-1.

Main activities: Stocking and distributing important raw material such as S. S. Copper; Construction and management of industrial estates; Managing service-workshops, viz. Engineering Service Workshop, Wood Workshops and Ceramic Service Centre; Running various production centres, manufacturing Theodolites, precision instruments, waterproof cloth goods, tiles, bricks, straw boards, small machine tools, dies and tools, Optical items (Laboratory), wooden furniture, die cast components etc.; Supply of machinery on hire purchase basis.

THE PLANTATION CORPORATION OF KERALA LIMITED.

Kottayam-1, Kerala State.

Area under rubber: 16,521 acres. Area under yielding: 3,561 acres. The Corporation manufactures all grades of sheet, crepe and concentrated latex.

MADHYA PRADESH FINANCIAL CORPORATION

(Shiv Vilas Palace, Indore City).

Renders financial assistance, both medium-term and long-term, to industrial units in private and co-operative sectors. The term of loan from the Corporation may be upto 20 years, but it is decided in each case keeping in view the requirement of the unit.

Maximum amount which can be sanctioned as assistance to one unit is Rs. 20 lakhs in the case of public limited companies and Rs. 10 lakhs in the case of others. The current rate of interest is 9 per cent and a rebate of $\frac{1}{2}$ per cent is allowed for punctual payment of interest and principal.

THE MADHYA PRADESH STATE INDUSTRIES CORPORATION LTD.

Maheshwari Bhavan, Civil Lines, Bhopal-2.

Object: To take over and run from the Government of Madhya Pradesh existing medium industries and to undertake development of new industries.

THE M.P. STATE MINING CORPORATION LTD.

Fourth Bridge Road, Napier Town, Jabalpur.

Main objects: To search for major and minor minerals and to mine and work them and to trade in minerals. The Corporation has included in its programme prospecting and mining of limestone and dolomite, bauxite, glass sand, ochres, fireclays, coal and building sand and stone.

THE MADRAS INDUSTRIAL INVESTMENT CORPORATION LIMITED

L. L. A. Buildings (Second Floor),
150-A, Mount Road, Madras-2.

The Main objects: Financing of industries in Tamil Nadu with long and medium term loans, participating in equity and preference shares of companies, underwriting of capital issues, guaranteeing of loans etc.

MADRAS STATE* SMALL INDUSTRIES CORPORATION LTD.

35/2, Woods Road, Mount Road, Madras-2.

Incorporated with the object of taking over industrial units earlier run departmentally and to undertake production and servicing jobs in these units.

* Now called Tamil Nadu.

THE MADRAS STATE* WAREHOUSING CORPORATION

9/10, Moore Street, Madras-1.

The main functions are : (a) to acquire and build warehouses within the State; (b) to run warehouses in the State for storage of agricultural produce, seeds, manures, fertilisers and notified commodities and (c) to act as agent of the Central Warehousing Corporation or of the Government for the purposes of the purchase, sale, storage and distribution of agricultural produce, seeds etc.

The Corporation provides about 73,294 tonnes storage capacity in 28 of its warehouses of which eleven are owned and constructed warehouses.

THE MAHARASHTRA AGRO-INDUSTRIES DEVELOPMENT CORPORATION LIMITED

Akash-Deep, 3rd Floor, French Bridge,
Bombay-7 (W.B.)

Objects : To undertake the manufacture and distribution of agricultural commodities required for modern agriculture including animal husbandry and poultry, such as fertilisers, balanced cattle and poultry feeds and to distribute farm implements and machinery and help in the process of modernisation of agriculture.

MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION

(A Government of Maharashtra Undertaking)

Marol Industrial Area, Mahakali Caves Road,
Andheri (East), Mulgaon, Andheri, Bombay 69.

The functions of the Corporation are :—

to promote and assist in the rapid and orderly establishment, growth and development of industries; to establish and manage industrial estates; to develop industrial areas selected by the State Government; and to assist, financially, industries by loans to move their factories to industrial estates or areas.

The Corporation has set up a separate division called the Maharashtra Investment Centre, which has its office on the 5th floor, Orient House, Mangalore Street, Ballard Estate, Bombay 1. It has also set up another Division called the Industrial Development Institute.

MAHARASHTRA SMALL SCALE INDUSTRIES DEVELOPMENT CORPORATION LTD.

(A Govt. of Maharashtra Undertaking)

Bombay Life Building, 5th Floor, 45, Veer
Nariman Road, Fort, Bombay 1.

Objects : (a) To aid, assist, finance and promote the interests of small industries in Maharashtra; (b) to promote and operate schemes for development of small industries in the State of Maharashtra and (c) to procure capital or financial assistance or accommodation for, or provide machinery, equipment, technical and managerial assistance to small industries.

Present Activities :—(a) Procurement of basic raw materials and arranging for their equitable distribution; (b) supply of machinery and equipment (particularly of indigenous origin) to the small-scale industries on easy instalment basis; (c) helping the small-scale industries in marketing their products; (d) supplying ancillary jobs to small-scale units; (e) helping the small-scale units for the export of their products; (f) providing to small-scale units assistance for the marketing of consumer products and (g) rendering technical advice to small-scale units through 'Forum of Industrial Technologist' formulated under the auspices of the Corporation.

* Now called Tamil Nadu.

THE MAHARASHTRA STATE FARMING CORPORATION LTD.

Sachivalaya Annexe, Bombay-32.

A Government of Maharashtra Undertaking.

Object : Cultivation and management of the surplus lands of the Joint Stock Sugar Companies in Maharashtra vesting in the Government under the provisions of the Maharashtra Agricultural Lands (Ceiling on Holdings) Act, 1961.

MAHARASHTRA STATE FINANCIAL CORPORATION

United India Building, 1st Floor, Sir Pherozeshah
Mehta Road, Bombay 1.

Branch Offices : National Indian Building, Mount Road Extension, Nagpur; Mohan Talkies, Sarafa, Aurangabad; Govind Krupa, Station Road, Miraj; 7-8, Susheela, 18th June Road, Panaji, Goa; Alankar Theatre Building, 1st Floor, Near Poona Rly. Station, Poona.

The main object of the Corporation is to provide financial assistance to medium and small scale industrial concerns in Maharashtra State and in the Union Territory of Goa, Daman and Diu for purchase of land, plant and machinery, construction of building, for renovation and expansion of existing units and for the development of new ones.

MAHARASHTRA STATE WAREHOUSING CORPORATION

18, Bombay Road, Poona-3.

The Corporation has established warehouses at 40 centres spread all over the Maharashtra State. The maximum custom during the year 1967-68 was 5,84,751 bags of agricultural produce. Against warehouse receipts issued by the Corporation, the depositors can secure advances by pledging the same with scheduled banks, State Bank of India and Dist. Central Cooperative Banks.

THE STATE INDUSTRIAL AND INVESTMENT CORPORATION OF MAHARASHTRA LIMITED

5th Floor, Mistry Bhavan, Dinsha Wachha Road,
Bombay-1.

(A Government of Maharashtra Undertaking).

Objects : To promote development of industries in the under-developed areas of Maharashtra State by assisting industries in the private sector by underwriting support/equity participation in the capital issues, by grant of long-term loans and in the joint sector by promoting new industrial projects.

THE MYSORE SMALL INDUSTRIES CORPORATION LIMITED

Administrative Office Building, Industrial Estate,
Rajaji Nagar, Bangalore 10.

The Corporation is set up to assist, finance and generally to promote the interests of the small scale industrialists in the State.

Activities : The construction, management and administration of industrial estates and industrial development areas in the State; operating raw material depots at industrial estates where controlled raw materials required by small scale industrialists are stocked for sale; hire purchase of machinery for small scale industrialists; organising exhibitions and display and marketing of the products of the small scale industries and also of components required by major industries.

MYSORE STATE FINANCIAL CORPORATION

First Main Road, Gandhigar, Bangalore 9.

MYSORE STATE HANDICRAFTS DEVELOPMENT CORPORATION LTD.

26-45, Mahatma Gandhi Road, Bangalore-1.

The Corporation aims at organising and developing all the emporia and provide increased marketing facilities for the artisans engaged in the manufacture of handicraft goods.

The Corporation has started two production centres for Sandalwood Carving at Kumta and Sagar.

MYSORE STATE INDUSTRIAL INVESTMENT AND DEVELOPMENT CORPORATION LTD.

4/7, Ali Asker Road, Bangalore-1.

Aims and Objectives of the Corporation: The main objectives of this Corporation, among others, are to promote, improve, establish and execute industries and industrial projects; to aid, make advances, assist and finance industrial undertakings and underwrite the stock, shares etc.

THE INDUSTRIAL DEVELOPMENT CORPORATION OF ORISSA LTD.

(A Govt. of Orissa Undertaking)
Bhubaneswar.

The Corporation has six running industries (1) Kalinga Iron Works, Barbil, manufacturers of superior foundry grade pig iron, (2) Hirakud Industrial Works, manufacturers of light and medium structurals and specialised mild steel fabrications, (3) a large-scale modern Tile Factory, Choudwar, (4) Portland Cement Factory, Bargarh, (5) Re-rolling Mill, Hirakud and (6) Electrical Cable Factory, Hirakud.

ORISSA CONSTRUCTION CORPORATION LTD.

(A Govt. of Orissa Undertaking)
Post Box No. 82, Bhubaneswar.

The Corporation is engaged in large-scale construction works and has already completed a number of High Level Bridges, Dams, Syphons, Aqueducts, Runway etc. Major works presently at hand include erection of one of the two Ferrochrome Factories of the country, operation of stone quarries and putting up of the power house for a major Hydroelectric Project at Balimela and a dam across river Salandi.

ORISSA STATE FINANCIAL CORPORATION

Barabati Stadium, Cuttack 5.

Object: To provide medium and long-term credit to small-scale and medium sized industrial concerns in the State of Orissa, primarily for the purpose of purchase, renovation or expansion of plant and machinery and other fixed assets. Underwriting of shares is also made in suitable cases.

THE PUNJAB EXPORT CORPORATION LIMITED

327, Sector 9-D, Post Box 20, Chandigarh,
Punjab.

Object: To serve as a channel for the outflow of goods from Punjab's medium and small-scale industries to the export markets. It organises and effects exports from India of all such goods and commodities as are manufactured and produced in Punjab and coordinates the activities of exporters with various export promotion councils. It arranges supply of scarce raw materials required for the manufacture of goods meant for export, as also finance to enable the manufacturers to process firm orders for export. In addition, the Corporation renders institutional service and guidance to manufacturers/exporters in Punjab.

PUNJAB FINANCIAL CORPORATION

72/73, Sector 17-B, Bank Square, Chandigarh.

Is intended primarily to supply the requirements of medium and small industries in the State of Punjab only.

THE PUNJAB STATE SMALL INDUSTRIES CORPORATION LTD.

Bank of Baroda Bldg., 1st Floor, Sector-17,
Chandigarh.

Its objects are to aid, counsel, assist, finance, protect and promote the interest of small industries in the State.

Primary functions: Procurement, storage and distribution of all types of raw materials, both controlled and decontrolled. For this purpose, it has set up depots at Batala, Jullundur, Goraya, Ludhiana, Yamuna Nagar, Malerkotla, Dhuri, Amritsar and Chandigarh. The Corporation also undertakes the supply of machinery on hire purchase to the small industries in the project area of Malerkotla.

RAJASTHAN FINANCIAL CORPORATION

Surya Nivas, C-18, Bhagwandas Road,
Post Box No. 63, Jaipur.

Object: To provide financial assistance to medium- and small-scale concerns in the State.

RAJASTHAN STATE HOTELS CORPORATION LIMITED.

Rajasthan State Hotel Premises, M. I. Road,
Jaipur.

Object: To adequately meet the growing needs and giving full importance to Tourism both International and National.

The main aim of the Corporation in its overall activities is to include all such activities conducive to tourists' convenience and interests.

TRIPURA SMALL INDUSTRIES CORPORATION LIMITED

Agartala, Tripura.

The principal functions of the Company are to aid, assist and advise the small industrial units through various means.

U. P. FINANCIAL CORPORATION

7/154, Swarupnagar, Kanpur-2.

The object is to provide finance to small and medium-scale industries.

U. P. SMALL INDUSTRIES CORPORATION LIMITED

14/40, Civil Lines, Kanpur.

Object: To assist the development of small industries in the State.

U. P. STATE INDUSTRIAL CORPORATION LIMITED

Building of the Directorate of Industries, 117/420,
G. T. Road, Post Box No. 413, Kanpur.

Objects: To assist the process of rapid and extensive industrialisation of the State.

Activities: (1) Acquisition and development of land in Ghaziabad, Hardwar, Bareilly, Kanpur, Lucknow, Gorakhpur, Allahabad and Mirzapur for offering to industrialists on lease; (2) Underwriting of Share Capital of

public limited companies; (3) Working of certain selected mineral deposits within the State of U.P. for supply to industrial concerns; and (4) Establishment of a Power Tiller Project in the public sector with or without foreign collaboration; (5) Establishment of a Dead Burnt Magnesite Project in Almora Dist.

WEST BENGAL FINANCIAL CORPORATION

4, Kiron Sankar Roy Road, (1st Floor),
Calcutta-1.

Object: To provide financial assistance, chiefly by way of long and medium term loans, to industrial concerns in the State.

WEST BENGAL SMALL INDUSTRIES CORPORATION LTD.

(A Govt. of West Bengal Undertaking)
45, Ganesh Chandra Avenue (2nd Floor),
Calcutta-13.

This Corporation looks after the various problems facing the cottage and small scale industries of the State.

Activities: Procurement and distribution of raw materials and marketing the finished products mostly consumer goods of the Cottage and Small-scale Industrial Units of the State through the Corporation's Sales Emporia within and outside the State of West Bengal and financing the supply of raw materials and their import.

PUBLIC FINANCE

SOURCES OF REVENUE AND EXPENDITURE

THE principal sources of Central revenue are: customs duties, excise duties levied by the Central Government, corporation tax, income tax (excluding taxes on agricultural income), wealth tax, estate and succession duty, the earnings from the mints, terminal taxes on goods or passengers carried by railway, sea or air, taxes on railway fares and freights, taxes (other than stamp duty) on transactions in stock exchange and future markets, stamp duty on bills of exchange, cheques, bills of lading, letters of credit, insurance policies, transfer of shares, etc., taxes on sale and purchase of newspapers and on advertisements in newspapers.

The railways and the posts and telegraphs contribute to the Central revenues. There are also the profits on the Government industrial undertakings.

About as much as 80 per cent of the revenue is derived from the customs, excise duties, corporation and income-taxes.

The two biggest items of expenditure of the Central Government are outlay on development programmes (capital account) and defence.

Then there is public debt which consists of rupee loans, sterling loans and loans received from other countries. The rupee debt may be divided into three classes, long term loans and money market liabilities, the unfunded debt which includes provident funds, postal deposits, saving certificates, and last the deposits.

1969-70 BUDGET †

The Deputy Prime Minister Mr. Morarji Desai presented to the Parliament on February 28, 1969 the budget for 1969-70. Casting his net wide Mr. Desai made tax proposals bringing in an additional revenue of Rs. 127.27 crores. In his budget, he depended overwhelmingly (Rs. 104.57 crores) on excise duties and to a lesser extent on direct taxation (Rs. 13.5 crores) and revision of telephone and telegraph tariff (Rs. 6.46 crores) to bridge the gap.

A deficit of Rs. 250 crores was left uncovered, about the same as in 1968-69.

On the other hand, in a bid to make exports competitive, Mr. Desai gave away Rs. 23 crores through cut or exemption of export duties on a number of items, such as jute, hessian and sacking, wool sacks and cotton bagging, mica and package tea.

This loss was made up only to the extent of Rs. 6.2 crores through a mark-up in the import duty on cars, dry fruits and lubricants.

BUDGET AT A GLANCE

(In Rupees Crores)

			Revised 1968-69	1969-70 estimates
Revenue receipts	..	..	2,749	2,899.97
Capital receipts	..	..	1,361	1,729.88
Total receipts	..	..	4,110	4,629.85
Revenue expenditure	..	..	2,745	2,959.93
Capital expenditure	..	..	1,625	2,019.92
Total expenditure	..	..	4,370	4,979.85
Overall deficit	..	..	—	350
Effect of budget proposals	..	..	—	(—) 1,00.15
Total uncovered deficit	..	..	260	249.85

TAX PROPOSALS IN BRIEF

Indirect Taxes

Customs Duties: A. Import duties stepped up—(A) Lubricating oil by 12½ per cent *ad valorem*—gain Rs. 260 lakhs. (B) Motor cars by 40 per cent *ad valorem*—gain Rs. 60 lakhs. (C) Dry fruits and seedless dates by revising the basis of valuation—gain Rs. 300 lakhs.

Total gain Rs. 620 lakhs, from Rs. 325 crores to Rs. 331 crores.

B. Export duties reduced:

(A) Jute manufacturers: (i) Hessian by Rs. 300 per tonne, (ii) Wool sacks by Rs. 250 per tonne (completely exempted), (iii) cotton bagging by Rs. 200 per tonne (completely exempted), (iv) other sacking by Rs. 100 per tonne—loss Rs. 1,175 lakhs.

(B) Tea: (i) Package tea by 10 per cent *ad valorem*, (ii) other tea by 5 per cent *ad valorem* plus 20 paise per kg.—loss Rs. 1,055 lakhs.

(C) Degreased raw wool by 10 per cent *ad valorem* (completely exempted)—loss Rs. 30 lakhs.

(D) Mica loose splittings nos. 5½ and 6 by 20 per cent *ad valorem*—loss Rs. 30 lakhs.

Total loss Rs. 2,300 lakhs, from Rs. 97 crores to Rs. 74 crores.

† At the time of going to press the Budget was just presented to the Parliament. As such, only details as on that day are given in this article.

Union Excise Duties : A. Excise duties on new commodities :

(1) Fertilisers at the rate of 10 per cent *ad valorem*—yield Rs. 2,200 lakhs. (2) Power driven pumps at the rate of 20 per cent *ad valorem*—yield Rs. 200 lakhs. (3) Prepared or preserved foods at the rate of 10 per cent *ad valorem*—yield Rs. 150 lakhs. (4) Domestic electrical appliances at the rate of 10 per cent *ad valorem*—yield Rs. 200 lakhs. (5) Cinematograph films (unexposed raw film) at the rate of two paise per metre—yield Rs. 10 lakhs. (6) Pilfer-proof caps for packaging at the rate of one paise each—yield Rs. 50 lakhs. (7) Wool tops at the rate of 10 paise per kg.—yield Rs. 6 lakhs.

Total yield Rs. 2,816 lakhs.

B. Excise duties changed :

(1) Vacuum pan sugar, existing specific rate of Rs. 28.65 per quintal into *ad valorem* rate of 23 per cent—yield Rs. 2,746 lakhs. (2) Cigarettes, increases from 6 per cent to 18 per cent *ad valorem*—yield Rs. 1,584 lakhs. (3) Motor spirit, from Rs. 550 to Rs. 620 per kilolitre—yield Rs. 1,400 lakhs. (4) Superior kerosene, from Rs. 165.25 to Rs. 205.25 per kilolitre, yield—Rs. 1,440 lakhs. (5) Rayon and synthetic fibres and yarn—cellulosic staple fibre, from Rs. 0.80 to Rs. 1.00 per kg. non-cellulosic staple (polyester) fibre, from Rs. 16 to Rs. 28 per kg.—yield Rs. 720 lakhs. (6) Jute manufactures on hessians, from Rs. 495.00 to Rs. 605.00 per tonne; on others, from Rs. 275.00 to Rs. 385.00 per tonne—yield Rs. 495 lakhs.

Total gain of Rs. 8,384 lakhs.

C. Duty on khandsari sugar, rubber products, vegetable product, soda ash, caustic soda, sodium silicate, soap, cement, electric bulbs and fluorescent tubes and electric fans modified; modifications incidental to other proposals or in the nature of rationalisation on account of conversion of specific rates into *ad valorem* rates—gain Rs. 350 lakhs. (Rs. 30 lakhs from khandsari sugar, Rs. 60 lakhs from rubber products, Rs. 260 lakhs from the others.)

As a result of the changes and duties on new commodities, total gain Rs. 11,550 lakhs.

Reliefs in Excise Proposed : Nylon yarn of lower deniers by Rs. 5 to Rs. 8 per kg. with suitable increases on some of the higher deniers—loss Rs. 173 lakhs. Rayon yarn, excluding industrial denier yarn in respect of big producers, stepped up by about 10 per cent, and margin for small producers reduced. Cotton 'hank' yarn used by handlooms—differential between "sized" and "unsized" yarns for assessment removed, with increase in duty on "unsized" yarn of higher count. Existing fabric compounded levy on powerlooms doubled—loss Rs. 580 lakhs.

Substantial relief on "grey" and "processed" medium-A, medium-B and coarse fabrics. Surcharge levied on printed fabrics. Adjustment in duty on fents. *Ad valorem* rate on nine selected costly varieties of fabrics.

Steel ingots or iron-steel products produced by electric furnace owners from scrap exempted from duty to the extent of steel ingot duty of Rs. 75 per tonne—loss Rs. 100 lakhs. Confectionery other than chocolates reduced by 50 paise per kg.—loss Rs. 80 lakhs. Embroidery effective rates reduced by 35 per cent—loss Rs. 65 lakhs.

Electronic valves, tubes, transistors and semiconductor diodes used by radio manufacturers reduced by one half—loss Rs. 60 lakhs. Substantial relief to cinematographic films exposed, including total exemption on first 12 prints of "black and white" at the same time higher rates on "colour" films.

Total reliefs amount to Rs. 1,093 lakhs. Corresponding countervailing duties on imports, notably of fertilisers, will yield Rs. 2,600 lakhs.

Net gain under excise duties Rs. 10,457 lakhs, of which Rs. 2,462 lakhs will accrue to the States.

DIRECT TAXES

A. Personal incomes : Rates of basic income-tax on incomes over Rs. 10,000 stepped up—Slab : Rs. 10,001 to Rs. 15,000 to 17 per cent against 15 per cent at present; Rs. 15,001 to Rs. 20,000 to 23 per cent against 20 per cent at present. At Rs. 15,000 additional income-tax (including surcharge) will be Rs. 110 and at Rs. 20,000 and above, Rs. 275.

B. Co-operative societies : Business income exempt from tax raised from Rs. 15,000 to Rs. 20,000. Rates revised as Rs. 1 to Rs. 10,000 15 per cent, Rs. 10,001 to Rs. 20,000 25 per cent, above Rs. 20,000 40 per cent.

C. Registered firms : Initial slab of income exempt from tax reduced from Rs. 25,000 to Rs. 10,000, and on the slab Rs. 10,001 to Rs. 25,000, rate 4 per cent.

Changes made in scheme of payment of advance tax to make it more effective and to reduce burden on taxpayers with small incomes.

Total gain Rs. 21.50 crores.

From the assessment 1970-71, agricultural property included in the net wealth and subjected to wealth tax. Standing crops and tools, implements and equipment exempted. Gain (Rs. 5 crores approximately) to be passed on to States.

Incentives & Reliefs

1. Cotton and jute textile industries treated as priority industries for development rebate. 2. Tax holiday concession extended by another five years, up to 31st March 1976. 3. Public companies, whose equity shares are listed in a recognised stock exchange, will be treated as widely held companies. 4. Indian company dividends exempt from tax raised from Rs. 500 to Rs. 1,000. 5. 40 per cent of royalties and fees received by Indian companies for providing technical know-how etc. to other concerns in India exempted. 6. Area of tax relief on savings through life insurance policies to be widened. 7. 25 per cent of professional income of authors, artists, etc. from foreign sources in foreign exchange exempted. 8. Standard reduction for maintenance of cars raised from Rs. 150 to Rs. 200 per month for salaries up to Rs. 15,000.

Loss Rs. 8 crores.

Miscellaneous : As a deterrent measure, penalties under wealth tax for certain defaults are being related to net wealth instead of wealth tax.

Telephone rentals in Bombay, Calcutta, Madras and Delhi proposed to be revised from Rs. 300 per annum to Rs. 360. For other exchanges, the rates will be raised from Rs. 240 per annum to Rs. 300 under the measured rate system, and from Rs. 300 per annum to Rs. 340 for the flat rate system. Directory enquiry service is to be charged. Uniform additional charge of 50 per cent of the basic charge proposed on trunk calls for particular person, fixed time and subscriber fixed time calls, instead of existing additional charge on a slab rate. Charges for greetings telegrams, multiple telegrams, telex services and a few other services raised.

Total yield Rs. 6.46 crores in a full year which covers deficit in the posts and telegraphs budget.

Income-Tax Table

The following table shows the comparative incidence of income-tax at selected levels of income for a resident married individual with more than one dependent child :

Income	Tax during 1968-69	Tax under budget	Increase
5,000	11	11	—
7,500	286	286	—
10,000	561	561	—
12,500	974	1,029	55
14,000	1,221	1,309	88
15,000	1,386	1,496	110
16,000	1,606	1,749	143
18,000	2,046	2,255	209
20,000	2,486	2,761	275
25,000	4,136	4,411	275
40,000	11,836	12,111	275
1,00,000	51,986	52,261	275

REVENUE RECEIPTS

(In crores of Rupees)

Heads of Revenue	1968-69 Revised	1969-70 Budget
<i>Tax Revenue</i>		
Corporation Tax	322.00	326.20
Taxes on Income	338.00	362.30
<i>Taxes on Commodities and Services</i>		
Customs	445.00	435.20
Union Excise Duties	1,320.45	1,526.20
Other Taxes and Duties	37.67	41.20
<i>Total Gross Tax Revenue</i>	2,485.68	2,715.07
<i>Total Transfers to States</i>	490.98	518.70
<i>Net Tax Revenue</i>	1,994.70	2,196.37
<i>Total Non-tax Revenue</i>	753.98	803.75
<i>Total Revenue Receipts (Net)</i>	2,748.68	3,000.12

Source : Explanatory Memorandum on the 1969-70 Central Budget, Part I, page 6.

DISBURSEMENTS

(In crores of rupees)

Heads of Expenditure	1968-69 Revised	1969-70 Budget
<i>Developmental Expenditure</i>		
Social Services	169.52	190.78
Economic Services	164.99	189.51
<i>Total Developmental Expenditure</i>	334.52	380.29
Defence Expenditure (Net)	943.63	985.78
Administrative and other services	402.56	428.86
Debt Services	527.69	568.82
<i>Total Assistance to States and Union Territories</i>	536.66	596.18
<i>Total Revenue Disbursements</i>	2,745.05	2,959.93

Source : Explanatory Memorandum on the 1969-70 Central Budget, Part I, page 7.

CAPITAL RECEIPTS AND DISBURSEMENTS

Capital account shows the capital requirements of Government and how these are financed. Among the principal sources for meeting these requirements first there is the revenue surplus. Secondly, regular loans are floated in the market. Thirdly, funds accrue to Government through small savings, annuity deposits and State Provident Funds, and through miscellaneous deposits and advances. Lastly, there are external borrowings. To the extent receipts from these sources fall short of the capital requirements the deficit is made good by the issue of treasury bills and drawal from cash balance.

The statement below gives a summary of the capital transactions :

Capital Receipts

(In crores of rupees)

	1968-69 Revised	1969-70 Budget
Debt raised in India (net) ..	74.96	100.00
Foreign Loans (net) ..	698.92	642.40
Repayment of Loans and Advances	735.00	745.00
Small Savings (net)	125.00	135.00
Other Debts and Deposits (net) ..	163.68	107.48
<i>Total Capital Receipts</i>	1,797.56	1,729.88
<i>Total Receipts</i>	4,546.24	4,730.00
Revenue Deficits .. ..	..	..
<i>Overall Deficit</i>	259.67	249.85

Source : Explanatory Memorandum on the 1969-70 Central Budget, Part I, page 8.

Capital Disbursements

(In crores of rupees)

	1968-69 Revised	1969-70 Budget
<i>Developmental Expenditure</i>		
Agriculture and allied services ..	6.86	26.68
Industries	193.81	282.17
Irrigation and Power	57.29	58.46
Transport and Communications ..	62.83	80.20
Railways	134.09	132.60
Other Services	—101.14	—28.49
<i>Total Developmental Expenditure</i>	523.11	669.05
Defence Expenditure	107.75	124.22
<i>Total Assistance to State and Union Territory Governments</i>	936.87	798.54
Loans and Advances to Public Sector Undertakings and other parties	594.27	456.60
<i>Total Capital Disbursements</i>	2,060.86	2,019.92@
<i>Total Disbursements</i>	4,805.91	4,979.85
Revenue Surplus	3.63	40.19*
<i>Overall Surplus</i> .. ..	..	..

@ In addition, the Public Sector Undertakings (including the Railways and the P. & T. will incur developmental expenditure amounting to Rs. 165 crores out of their own resources.

* Effect of Budget proposals.

Source : Explanatory Memorandum on the 1969-70 Central Budget, Part I, page 9.

DEBT POSITION

The outstanding Public debt of the Government of India is expected to amount to Rs. 12,729.99 crores at the end of the current year and Rs. 13,823.62 crores at the end of 1969-70 comprising:—

(In Crores of Rupees)

	As on 31st March, 1969	As on 31st March, 1970
Debt raised in India	6,802.89	7,254.12
Debt raised outside India	5,927.10	6,569.50
	12,729.99	13,823.62

Source: Explanatory Memorandum on the 1969-70 Central Budget, Part II, page 83.

TRANSFER OF RESOURCES TO THE STATES

The following statement shows the resources transferred from the Centre to the States.

(Rs. crores)

Purpose	Total First Plan	Total Second Plan	Total Third Plan	1966-67	1967-68	1968-69 (Revised)	1969-70 (Budget)
1. Share of Taxes and Duties	326.7	711.1	1,195.9	372.6	415.7	491.0	519.0
2. Grants	287.7	745.9	1,303.1	449.2	525.9	259.7@	266.3
(i) Met from Revenue	248.0	667.9	1,151.5	412.1	490.1		
(ii) Met from Capital	39.7	78.0	151.6	37.1	35.8		
3. Loans	798.5	1,410.9	3,101.4	935.3	901.5	631.0	589.0
Grand Total (1+2+3)	1,412.9	2,867.9	5,600.4	1,757.1	1,843.1	1,381.7	1,374.3

@ Includes grants met both from Revenue and Capital.

Source: Explanatory Memorandum on the 1969-70 Central Budget, Part I, page 18.

BROADCASTING

EXPANSION OF MEDIUM WAVE

POWERFUL Transmitters—Two medium wave transmitters of 1,000 kW each have been ordered for augmenting the reception of AIR's external services in the first instance. One of them will be installed in the Saurashtra region and the other in the Eastern region, to cover the border areas. High power (100 kW) short wave transmitters are being installed near Aligarh and Delhi, while similar medium wave transmitters are being erected at Dibrugarh and Jullundur.

The Monitoring station at present in Simla is proposed to be shifted to Delhi. Additional buildings at Headquarters, Delhi, for News Services and External Services are proposed to be constructed. Studio facilities at many stations will be augmented and preparation for introducing TV in Bombay, Tamil Nadu and Calcutta will be made during the Plan.

COMMERCIAL BROADCASTING

Commercial Broadcasting on the Vividh Bharati channel for Bombay, Poona and Nagpur is now being extended to other regions. The Advisory Board has suggested that the service be extended to Ahmedabad, Tamil Nadu, Calcutta and Delhi regions.

Bombay experiment has brought in Rs. 45 lakhs during the year.

The extension of advertisements on a national hookup, from the 100 kW transmitters of the Vividh Bharati at Bombay and Madras, is being actively considered.

AIR CODE

In consultation with all parties and State Governments, Government of India have finalised a 9-point code for broadcasts by individuals. Under it, AIR will not allow any broadcasts containing:

- (i) criticism of friendly countries,
- (ii) attack on religion and communities,
- (iii) any thing obscene or defamatory,
- (iv) incitement to violence or any thing against maintaining law and order,
- (v) any thing amounting to a contempt of court,
- (vi) aspersions against the integrity of the President, Governors and Judiciary,
- (vii) attack on a political party by name,
- (viii) hostile criticism of any state of the Union or the Union Government, and
- (ix) any disrespect for the Constitution.

BUDGET

The actual expenditure of All India Radio for 1966-67 was Rs. 806 lakhs. Revenue reached a slightly higher figure than Rs. 10 crores.

TELEVISION

Confined to the Capital Delhi and its neighbourhood, TV programmes of AIR extend to about 21 hours a week, including educational programmes. On week days, the TV programme is for 1½ hrs and on Sundays it is extended by half an hour to two hours.

Over 80 villages round about Delhi are supplied with TV receiving sets, enabling nearly 16,000 farmers to learn from viewing.

Over 36,000 students derive benefit of TV available in 323 schools (548 TV sets), from lessons in physics and chemistry; while for lessons in English language and general sciences there are nearly one lakh of viewers on TV.

There are over 5,000 domestic TV sets in Delhi and round about.

Programme Publicity: All India Radio has only 8 journals (in 8 languages) for its regular internal publicity programmes.

Akashvani (English), *Awaz* (Urdu), *Sarang* (Hindi), *Betar Jagat* (Bengali), *Vani* (Telugu), *Vanoli* (Tamil), *Nabhovani* (Gujarati) and *Radio Goa* (English) are for home services.

PROGRAMMES

Women's Programmes:—Weekly Programmes for women in English (from important regional centres) and in Indian languages from all stations are broadcast. Talks, dialogues, stories and songs are included in the programme and the topics generally are of feminine interest: child care, family planning, health hints. Group listenings are encouraged. By the end of 1966, there were about 4,275 Women's Listening Groups.

Rural Broadcasts:—While the provision of programmes is the Central responsibility, the supply of listening sets to the rural population is the responsibility of State Governments.

Weather bulletins during the monsoon are a regular feature of the composite programme.

BROADCAST RECEIVER LICENCES AS ON 31-12-1967

(by Postal Circles)

Name of circle	Domestic	Concessional				Com-mercial	De-mons-tration	Possession		Total
		Cheap	Community	School	Hos-pital			Dealer	Non-dealer	
1	2	3	4	5	6	7	8	9	10	11
										Rs.
Andhra	5,09,854	53,027	11,099	2,263	52	8,132	426	1,613	70	5,86,536
Assam	96,244	5,425	2,808	429	3	1,477	185	347	52	1,06,970
Bihar	2,17,195	29,235	1,435	1,554	19	4,358	279	952	12	2,55,045
Delhi	3,00,302	1,25,710	20	104	2	6,140	284	2,462	209	4,35,233
Gujarat	5,30,029	37,423	6,032	836	63	9,431	277	2,040	47	5,86,178
J. & K.	61,944	9,969	1,884	9	—	850	135	237	3	75,031
Kerala	1,78,273	7,929	3,309	1,132	29	5,125	144	715	22	1,96,678
Mysore	3,24,731	22,510	4,757	825	10	8,597	357	1,147	100	3,63,034
Maharashtra ..	9,39,141	56,626	3,409	1,393	62	18,098	543	3,426	352	10,23,050
Madhya Pradesh	2,81,344	22,396	6,677	909	75	6,165	358	1,192	50	3,19,166
Orissa	98,903	15,504	1,575	572	176	1,345	241	365	5	1,18,686
Punjab	5,48,391	1,24,859	3,618	999	177	10,421	523	2,023	46	6,91,057
Rajasthan	1,93,707	27,365	1,195	1,254	121	5,347	291	806	28	2,30,114
Tamil Nadu	6,18,920	41,824	13,276	2,491	78	15,032	590	2,253	134	6,94,598
Uttar Pradesh ..	5,80,884	1,38,633	7,855	2,369	80	10,646	195	3,185	30	7,43,877
West Bengal ..	6,12,831	4,62,464	1,536	1,075	68	9,918	189	4,757	135	10,92,973
C.B.P.O.	60,187	1,010	—	—	—	—	—	—	45	61,242
TOTAL ..	61,52,880	11,81,909	70,485	18,214	1,015	1,21,082	5,017	27,520	1,346	75,79,468

Grand Total : 75,79,468

National Programmes.—The Saturday National Programmes of music lasting 90 minutes have been quite popular. It is generally so planned that Northern and Southern (Karnatic) music alternate every Saturday. Arrangements are being made to have this item originate at other places. At present most of the Saturday concerts originate from Delhi and all stations relay them.

Talks.—Important topics of a national character are dealt with by an accepted authority in a nation-wide broadcast on Sundays and Wednesdays at 8.30 p.m. Since its inception in 1953, this programme has featured 527 talks and discussions.

Development Projects, Factories.—In order to make the country plan-minded, a feature on some of the bigger national projects is arranged once a month, and it is put out on the air simultaneously from all the stations.

Vividh Bharati.—This light musical programme is now eleven years old (b. Oct. 1957), originally it was running for about 5 hours on week days and for a little over 7 on Sundays and holidays. At present it is broadcasting for more than 12 hours every day and the broadcasting is distributed over four transmissions. In one of them Karnatic music is broadcast for nearly two hours daily. There are over 28 Vividh Bharati transmitters at as many stations.

The duration of this recorded variety programme, mostly of music extends to 11½ hours on week days and 12½ hours on Sundays and principal festival days.

Some of the news bulletins and commentaries (in Hindi) are being included in the Vividh Bharati; but that is perhaps a temporary arrangement to meet the emergency. At the close of 1965, there were 26 medium-wave centres carrying the Vividh Bharati service.

NEWS SERVICES DIVISION

All India Radio has 133 bulletins in the Home service and 44 in the External Services. Nine Bulletins in English and Hindi and 41 in Indian languages, are broadcast daily from Delhi and they are relayed by the respective stations. For the Home Service, 18 languages are used and for the External Services 19. By the end of 1967, news broadcasts occupied 21.15 hrs., a day for the Home Service and 6.16 hrs. in the External Service, making a grand total of 27.31 hrs. every day.

Sindhi bulletins are relayed by Bombay, Bhuj, Ahmedabad and Jaipur stations.

Tribal dialects and local languages are used for broadcasting news bulletins from regional stations. In all, 78 news bulletins—18 in major languages and 24 tribal dialects—requiring in all 10.22 hrs. daily are broadcast by the regional stations.

Radio News Reels.—Twice a week, radio news reels of 10 mts. duration, prepared by the News Service Division are broadcast from Delhi for an all-India consumption, and once a week in Hindi. On special occasions such as receptions to visiting dignitaries, or of our leaders visiting other countries, extra "editions" of the radio news reels are broadcast. English, Hindi and other languages are used for these "newspapers of the air."

Regional News.—All capitals of States, now devote ten minutes a day for covering regional news in languages other than English. The timings however are late in the afternoon.

A few minutes are set apart at each station for local announcements. This period accommodates news of purely local interest.

External Services :—For projecting Indian image abroad and for maintaining contact with Indian residents outside India, All India Radio runs the External Services with news bulletins, features, music and talks.

Programmes in Bengali run for 7 hours and in Urdu for 8 hours daily. Programmes in six Indian and 15 non-Indian languages total over 43 hours a day and they are directed to Asian, African, Australian and European regions.

When dignitaries from abroad visit India, special programmes are broadcast to regions from which they hail and suitable arrangements are made for correspondents accompanying the dignitaries, to send despatches for broadcasting.

Programme publicity of the overseas broadcasts is achieved through *India Calling*, printed monthly in English and 10 quarterly folders in Arabic, Burmese, Chinese, French, Indonesian, Nepali, Persian, Pushto, Swahili and Tibetan and distributed among 17,000 regular listeners abroad.

AIR STATIONS

Medium-Wave Stations. The first figure within brackets indicates the wavelength in metres and the second figure the frequency in kilocycles per second : Agartala (236.2 ; 1,270) ; Ahmedabad (352.9 ; 850) ; Ahmedabad-B (214.3 ; 1,400) ; Aijal (326.1 ; 920) ; Ajmer (500.0 ; 600) ; Allahabad-A (315.8 ; 950) ; Allahabad-B (211.3 ; 1,420) ; Bangalore-A (491.8 ; 610) ; Bangalore-B (365.9 ; 820) ; Baroda (352.9 ; 850) ; Bhadravati (375.0 ; 800) ; Bhagalpur (204.1 ; 1,470) ; Bhopal-A (197.4 ; 1,520) ; Bhopal-B (250.0 ; 1,200) ; Bhuj (232.6 ; 1,200) ; Bikaner (225.6 ; 1,330) ; Bombay-A (288.5 ; 1,040) ; Bombay-B (545.5 ; 550) ; Bombay-C (243.9 ; 1,230) ; Calcutta-A (447.8 ;

670) ; Calcutta-B (300 ; 1,000) ; Calcutta-C (194.8 ; 1,540) ; Calicut A (441.2 ; 680) ; Calicut-B (275.2 ; 1,090) ; Chandigarh* (245.9 ; 1,220) ; Coimbatore (297 ; 1,010) ; Cuddappah (333.3 ; 900) ; Cuttack-A (310.9 ; 965) ; Cuttack-B (222.2 ; 1,350) ; Delhi-A (370.4 ; 810) ; Delhi-B (280.4 ; 1,070) ; Delhi-C* (219.0 ; 1,370) ; Delhi-D (191.1 ; 1,570) ; Dharwar-A (220.6 ; 1,360) ; Dharwar-B (258.6 ; 1,160) ; Gauhati-A (411.0 ; 730) ; Gauhati-B (291.26 ; 1,030) ; Gulbarga (270.27 ; 1,110) ; Gwalior (215.8 ; 1,390) ; Hyderabad-A (405.4 ; 740) ; Hyderabad-B (282.0 ; 1,060) ; Hyderabad-C (245.9 ; 1,220) ; Imphal (215.8 ; 1,390) ; Indore-A (461.5 ; 650) ; Indore-B (188.7 ; 1,590) ; Jabalpur (254.2 ; 1,180) ; Jaipur-A (202.7 ; 1,480) ; Jaipur-B(S.W.) (. . .) ; Jaipur-C (236.2 ; 1,270) ; Jammu (303.0 ; 990) ; Jeypore (205.5 ; 1,460) ; Jodhpur* (365.9 ; 820) ; Jullundur-A (337.1 ; 890) ; Jullundur-B (422.5 ; 710) ; Jullundur-C (222.2 ; 1,350) ; Kanpur* (208.3 ; 1,440) ; Kohima (201.3 ; 1,490) ; Kurseong (S.W.) (. . .) ; Lucknow-A (394.7 ; 760) ; Lucknow-B (. . .) ; Lucknow-C (329.7 ; 910) ; Madras-A (416.7 ; 720) ; Madras-B (211.3 ; 1,420) ; Madras-C (193.5 ; 1,550) ; Mathura (196.1 ; 1,530) ; Nagpur-A (508.5 ; 590) ; Nagpur-B (454.5 ; 660) ; Panaji (340.9 ; 880) ; Pasighat (NEFA) (283.0 ; 1,060) ; Patna-A (483.9 ; 620) ; Patna-B (200.0 ; 1,500) ; Pondicherry (400.0 ; 750) ; Poona-A (384.6 ; 780) ; Poona-B (309.3 ; 970) ; Port Blair (208.3 ; 1,440) ; Raipur (300.0 ; 1,000) ; Rajkot-A (329.7 ; 910) ; Rajkot-B (211.3 ; 1,420) ; Rampur (294.1 ; 1,020) ; Ranchi-A (535.7 ; 560) ; Ranchi-B (243.9 ; 1,230) ; Sambalpur (348.8 ; 860) ; Sangli (240.0 ; 1,250) ; Shillong (250.0 ; 1,200) ; Siliguri (192.3 ; 1,560) ; Simla (S.W.) (93.09 ; 3,223) ; Srinagar-A (267.9 ; 1,120) ; Srinagar-B (201.3 ; 1,490) ; Teju (225.6 ; 1,330) ; Tiruchirappalli-A (319.1 ; 940) ; Tiruchirappalli-B (202.7 ; 1,480) ; Tirunelveli (250.0 ; 1,200) ; Trichur (517.2 ; 580) ; Trivandrum-A (454.5 ; 660) ; Trivandrum-B (263.2 ; 1,140) ; Udaipur (256.4 ; 1,170) ; Varanasi (241.9 ; 1,240) ; Vijayawada-A (357.1 ; 840) ; Vijayawada-B (200.0 ; 1,500) ; Vishakhapatnam (322.6 ; 930).

Medium wave length remains unchanged throughout the year; its coverage after sunset gets considerably extended.

HAMS — AMATEUR BROADCASTERS

For a wider penetration of broadcasting technique, HAMS or amateur broadcasters, with a small transmitter, are useful to pave the road for and help build an unofficial second line of technical experts. By 1962 there were just 300 HAMS in India. About 100 were added to the number during 1963 and there are only 400 HAMS. Even with this small number, the HAMS are well organised.

BROADCAST LICENCES & PRODUCTION OF RECEIVING SETS

Broadcast receiver licences are issued at all head and sub-post offices at a fee of fifteen rupees per year, and cover the use of receiving sets throughout India.

Broadcast Receiver Licences are issued to Municipalities or other public bodies for the reproduction of broadcast programmes in public places by the Postmaster-General of the State.

A licence issued for this purpose covers the use of one wireless receiver only.

A separate Broadcast Receiver Licence is, however, necessary in the case of clubs, institutions, messes, etc., for reproducing broadcast programmes at dances, concerts, bazaars, etc., to which the public are admitted.

* For Vividh Bharati only. Note: When there are only A & B transmitters, B is for Vividh Bharati and when there are A, B & C transmitters, C is earmarked for Vividh Bharati.

Licence Books of the size of Post Office Savings Bank Account pass-books are now issued at concessional rates for three years or more. Separate books are given for each receiving set. Specially issued stamps of the value of the fee, are affixed on the book and cancelled by the licence issuing authority.

INDIAN INSTITUTE OF MASS COMMUNICATION

Indian Institute of Mass Communication, (Ministry of Information and Broadcasting), offers practical training

to information personnel in the use of different media of mass communication.

The training programme is limited to members of the Central Information Service and information personnel of States. Some places, in each training course, will be offered to candidates under the Colombo Plan and the Special Commonwealth Assistance Programme.

Director : L. R. Nair.

COMMUNITY DEVELOPMENT PROJECTS AND PANCHAYATS

At the Centre the Ministry that is responsible for community development projects is the Ministry of Food, Agriculture, Community Development and Cooperation. The Ministry is responsible also for village panchayats.

The entire country has now been covered by the C. D. programme. Out of 5,265½ blocks into which the entire rural India stood delimited 1,717½ were in stage I, 2,207½ in stage II, 1,336½ in the post stage II phase and four were in the pre-extension phase.

The number of Tribal Blocks started upto the end of 1966-67 was 489 viz. 43 special Multipurpose Tribal Blocks (started during IInd Plan), 415 Tribal Development Blocks of the Third Plan and 31 other blocks set up in different States. No new blocks were allotted during 1967-68.

COMMUNITY DEVELOPMENT

An outlay of Rs. 20.51 crores had been approved by the planning Commission for different States for 1968-69.

The review of the progress of the C. D. programme during 1966-67 shows that there was an upward trend in the activities relating to distribution of improved seeds and chemical fertilisers, compost making, land improvement, minor irrigation, land reclamation, supply of improved birds, artificial insemination of animals, adult literacy, organisation of Gram Sahayak Camps, construction of pucca drains, renovation of drinking water wells, improvement of existing and construction of new *kucha* roads. However some decline was noted in respect of the distribution of improved implements, holding of agricultural demonstrations, supply of improved animals and construction of drinking water wells as compared with the preceding year.

PANCHAYATI RAJ

Village Panchayats exist in all the States and almost all the Union Territories. The higher two bodies, viz., Panchayat Samitis at the Block level and Zila Parishads at the District level have also been established in most of the States.

Certain recommendations, relating to different aspects of the Panchayati Raj system, such as mode of elections, finances, audit, incentives and safeguards, by the centrally organised study teams, are in various stages of implementation in the States. The resources of the Panchayat Samitis have risen from Rs. 137.94 crores in 1963-64 to 181.84 crores in 1966-67.

The greater involvement of Panchayati Raj institutions in the implementation of land reform measures has been

suggested by a study team appointed by Union Department of C. D. The team has suggested that Panchayati Raj institutions be associated with the maintenance of land records, particularly in matters like the regulation of tenancies, the landlord's right of resumption, the regulation of rent, the disposal of surplus land arising out of the imposition of ceilings on land holdings, the prevention of unlawful transfer of land to evade ceiling legislation and the consolidation of holdings. The team recommended the formation of a watch dog functional sub-Committee on land reforms in each panchayat, to look after items of land reforms which infringe on the interests of the weaker sections of the Community. It stressed the urgent necessity of setting up a village level revenue administration on the pattern of *ryotwari* system, in the States of West Bengal, Bihar and Orissa which did not have adequate revenue administration.

Coverage of the Panchayati Raj Institutions is given at the end of the article in a table.

Nyaya Panchayats : Nyaya Panchayats are functioning in Bihar, Gujarat, Haryana, Jammu & Kashmir, Parts of Kerala, Madhya Pradesh, Maharashtra, Orissa, Punjab, Rajasthan, Uttar Pradesh, Mysore and West Bengal. In Assam Nyaya Panchayats were proposed to be constituted after the expiry of the term of Panchayats in 1968. In Manipur the entire rural area in the valley portion has been covered ; the hilly areas are proposed to be covered by the Fourth Plan.

EDUCATION

Reorganisation of Training : The process of reorganisation of the existing middle level training institutions has been completed and Composite Training centres, roughly one in each State, run by State Governments concerned have been established with effect from April 1967. Training programmes are now being carried out at the Composite Training Centres, with flexible enough training schedules to meet local requirements. The Central Government continues to provide necessary financial assistance. According to reports as on December 31, 1967, 2,044 persons of different categories had received training at these centres.

Gram Sahayaks : During the year ending June 1967, 4,27,654 Gram Sahayaks were trained in camps organised locally in the blocks.

Youths & Women : The number of youth workers trained in 12-day camps was 1,726 and associate women in one month training courses was 1,606.

So far, 53,000 persons (officials and non-officials) received training in various categories in the Applied Nutrition Programme.

Fisheries : The number of fishery block and village units set up and the quantity of fish (kg.) supplied respectively during the year were: 197; 3,251 and 422,289. During the year 1,153 persons received training in pisciculture.

Poultry : The programme of poultry has been taken up both at the Block level by the Block organisation and the Panchayat Samitis at the village level by individual poultry keepers, Panchayats and other organisations. During the year 4,500 persons received training in poultry. The number of poultry village units set up was 5,555 and poultry Block units 914. The number of eggs supplied during the year was 35,452,000.

Village and Small Scale Industries : Efforts are being made to set up eight village industries per block in all the States.

Rural artisans : During the year ending June 1967, improved tools and appliances worth Rs. 15.52 lakhs were distributed to rural artisans under the C. D. programme. Loans amounting to Rs. 230.67 lakhs were given to 1,62,200 artisans, in addition to Rs. 20.81 lakhs given as grants to 23,727.

Health : By the end of the year 1966-67, the establishment of primary health centres had covered 4,920 of the 5,200 odd blocks in the country. Shortages of medical and para-medical staff however continued.

The Panchayati Raj institutions and the Block agency played a vital role, in coordination with the functionaries of the Health Department, in the motivational aspects of the Family Planning effort. There were 29,075 rural family planning centres, of which 4,683 were main centres, 16,198 subcentres and 8,194 other medical centres which distribute contraceptives, 5.7 lakh sterilisation operations were also performed.

Adult Literacy : During the year ending June 1967 about 45,556 adult literacy centres were started.

Applied Nutrition : Objects and activities : To improve local diets, through production, preservation and use of protective food like fruits, vegetable, fish and poultry. It was proposed to establish 1,000 additional blocks for applied nutrition programme during 1966-71, out of which 327 were already allotted to different States.

Mahila Mandals and Youth Clubs have been closely associated with the implementation of Applied Nutrition programme.

Rural Manpower Programme : At present this programme covers 998 blocks. It seeks to provide additional employment opportunities to rural workers in slack agricultural seasons, especially in areas exposed to seasonal unemployment and under-employment. An outlay of Rs. 90 crores had been indicated in the draft outline of the Fourth Plan, designed to provide additional slack season employment opportunities to some 1.5 million agricultural workers by the end of 1970-71.

The expenditure incurred and employment generated under the programme in 1966-67 were Rs. 678.21 lakhs and 245.35 lakh man-days respectively. The physical assets created under this programme show that 31,561 hectares were provided with minor irrigation facilities, 40,620 hectares brought under soil conservation and afforestation, 18,192 benefited under land reclamation, flood protection and anti-water logging measures, 16,644 hectares under miscellaneous agricultural schemes and 6,330 kilometers of inter-village roads were constructed and repaired.

Tribal Development : Emphasis continues to be laid on pooling of resources available with the development departments for taking up comprehensive programme for economic betterment of the tribals.

Yuvak and Mahila Mandals : The programmes for rural youth and women were maintained through Yuvak and Mahila Mandals. The membership of these associate organisations were 25 lakhs and 15 lakhs respectively.

Under the integrated programme of Family and Child Welfare, sponsored by the Department of Social Welfare at the Block level through the Panchayat Samitis, 17 projects have already been launched by the conversion of the existing Coordinated Welfare Extension projects; 33 more projects were expected to be set up by the end of 1967-68.

ACHIEVEMENTS OF C.D. PROGRAMME DURING 1966-67

Agriculture : Improved seeds distributed (quintals) 97,12,000; Chemical fertilizers distributed (quintals) 2,75,78,600; Chemical pesticides distributed (quintals) 2,82,981; Improved implements distributed (Nos.) 7,44,507; Agricultural demonstrations held (Nos.) 8,42,200; Compost Pits dug (Nos.) 74,14,100.

Land Improvement : Net additional area irrigated (hectares) 13,38,731; Land reclaimed (hectares) 5,53,164; Area bunded & terraced (hectares) 18,93,429.

Animal Husbandry : Improved animals supplied (Nos.) 30,972; Improved birds supplied (Nos.) 16,12,390; Animals castrated (Nos.) 34,36,600; Animals artificially inseminated (Nos.) 12,36,253.

Health & Rural Sanitation : Rural latrines constructed (Nos.) 68,759; Pucca drains constructed (meters) 19,80,827; Village lanes paved (sq. metres) 14,72,623; Soakage pits constructed (Nos.) 1,74,591; Drinking water wells constructed (Nos.) 34,731; Drinking water wells renovated (Nos.) 52,438.

Social Education : Adult literacy centres started (Nos.) 45,556, Adults made literate (Nos.) 10,36,774; Functional Gram Sahayak camps organised (Nos.) 21,254; Leaders trained (Nos.) 4,27,654.

Communications : New Kacha roads constructed (kms.) 35,449; Existing Kacha roads improved (kms) 52,614; Culverts constructed (Nos.) 20,660.

Village and Small Industries : Value of improved tools and appliances distributed (Blacksmiths) Rs. 6,45,471; (Carpentry) Rs. 6,59,099.

Applied Nutrition Programme (as on Sept. 30, 1967) : No. of blocks set-up 530; No. of villages taken up 16,347; No. of Mahila Samitis associated 5,886; Membership of Mahila Samitis (Nos.) 89,420; Youth Clubs associated (Nos.) 4,114; Membership of Youth clubs (Nos.) 87,045; No. of poultry block units set-up 914; Poultry Village units set-up 5,555; Fishery block units set-up 197; Fishery village units set-up 3,251; Horticulture Block units set up 432; Horticulture village units set-up 13,354; Water area stocked 25,203; Fingerlings supplied 16,966,000; School gardens laid 7,306; Kitchen gardens laid 494,167; Community gardens laid 5,016; Pre-school children fed (child-days) 15,775,000; Expectant and nursing mothers fed (woman-days) 6,872; Fish supplied 422,289 kgs.; Vegetable supplied 931,519 kgs; Eggs supplied 35,452,000; Milk supplied 681,580 litres; Non-officials trained 43,584; Officials trained 8,695; Persons trained in poultry 4,500; Persons trained in horticulture 3,010; Persons trained in pisciculture 1,153.

PANCHAYATS AS ON 31st MARCH 1967

State	No. of Panchayats	No. of Panchayat Samitis	No. of Zila Parishads	No. of Villages covered by Panchayats	Rural population* covered by Panchayats (in lakhs)	Percentage villages covered by Panchayats	Percentage rural population covered by Panchayats
Andhra Pradesh	15,268	321	20	27,084	297	100	100
Assam (Plains)	2,570	120	16	17,717	83	100	100
Bihar	10,814	71†	3†	67,782	422	99	99
Gujarat	11,755	182	17	18,247	153	100	100
Jammu & Kashmir	960	..	..	6,559	30	100	100
Kerala	922	..	..	1,574	144	100	100
Madhya Pradesh	12,801	..	..	70,414	233	92	94
Tamil Nadu	12,881	374	23	17,262	372	99	100
Maharashtra	20,287	295	25	35,492	281	99	99
Mysore	7,450	174	19	25,880	183	100	100
Orissa	2,340	314	13	47,939	158	94	96
Haryana	12,421	82	6	32,956	175	100	100
Punjab .. ..	..	116	11				
Himachal Pradesh	1,693	29	8				
Rajasthan	7,382	232	26	34,526	169	100	100
Uttar Pradesh	72,333	854	51	1,12,624	643	100	100
West Bengal	19,662	325	15	38,540	258	98§	98§
A. & N. Islands	32	..	..	110	0.5	82	95
Delhi	194	5†	..	259	3	100	100
Goa, Daman & Diu	159	..	..	265	5	100	100
Manipur	227	..	..	581	5	31	63
Tripura	304	..	..	1,436	8.4	29	81
TOTAL	2,12,465	3,494	253	5,57,247	3,522.9	99	98

* 1961 Census.

† Panchayat Raj bodies have been constituted in 3 districts, viz. Ranchi, Bhagalpur and Dhanbad.

‡ Non Statutory Panchayat Samitis.

§ Coal fields and tea estates remain yet to be covered.

PORTS

THERE are eight major ports in India, 21 intermediate ports and 144 working minor ports. Mangalore and Tuticorin are being developed as major ports.

Technically a major port is one which is capable of taking in ocean-going steamers with a registered tonnage of 4,000 or more and berth them along wharves.

The eight major ports are Bombay, Calcutta, Cochin, Kandla, Madras, Mormugao, Paradeep and Visakhapatnam.

State-wise distribution of intermediate ports and the number of minor ports respectively are :

MYSORE: Karwar & Mangalore & 19 minor ports. **TAMIL NADU:** Cuddalore, Nagapattinam & Tuticorin & seven minor ports. **MAHARASHTRA:** Ratnagiri and Redi, and 47 minor ports. **GUJARAT:** Okha, Porbander, Bhavnagar, Navalakhi, Bedi, Veraval, Broach, Mandvi, Sikka and Surat, and 40 minor ports. **KERALA:** Alleppey and Kozhikode, and nine minor ports. **ORISSA:** There is one minor port. **ANDHRA PRADESH:** Masulipatam and Kakinada, and five minor ports. **PONDICHERY:** There is one minor port of Pondicherry only. **ANDAMAN & NICOBAR ISLANDS:** There are 15 minor ports.

All the major ports with the exception of Paradip are administered by Port Trusts, which are statutory bodies. The Port of Paradip is administered by the Ministry of Transport and Shipping, Government of India.

The intermediate and minor ports are administered by State Governments.

The National Harbour Board: The Board advises the Central Government on matters of general policy relating to port management and development including their effects on industry, commerce, shipping, railways etc. so as to ensure integrated consideration of all important port matters.

LIGHTHOUSES

Lighthouses are divided into general and local according to the utility of a particular lighthouse to navigation. The superintendence and management of general lighthouses are vested in the Union Government while local lighthouses are managed by the local lighthouse authorities such as State Governments, Port Trusts, etc.

A statutory body—the Central Advisory Committee for Lighthouses, appointed under the Indian Lighthouses Act, advises the Union Government on matters connected with the erection, additions, alterations, improvements, etc. of lighthouses.

There are 269 lighthouses, 8 lightvessels, 156 lightbounys, 236 unlighted buoys, 233 beacons, 7 fog signals, 5 M. F. radio beacons, 2 harbour radars, 2 Decca navigator chain, 299 land marks, 716 other marks, making a total of 1,936 aids to navigation strewn over the coastline of approximately 4,340 miles including Andaman, Nicobar, Laccadive and Minicoy Islands.

Programme for the year 1968-69:—The Planning Commission had agreed to an expenditure of Rs. 50.72 lakhs for the provision of navigational aids, during the year 1968-69.

Progress of work during the year 1967-68 :—New lights have been installed at Savai Bet, Veraval (Gujarat), Androth Island, Kiltan (South End) Island, Minicoy Island (Laccadive Islands) and Gopalpur (Orissa), Dariapur (West Bengal). A new lightvessel has been laid in position to mark the Lushington Shoal (off Okha) in the Arabian Sea.

Construction of new lighthouses, towers and ancillary buildings at Diu Head, Piram (Gujarat), Trivandrum (Kerala), Cape Comorin, Nagapatnam (Tamil Nadu), Landfall, Car Nicobar (Andaman & Nicobar Islands), Pudimadakha have been completed. The construction of lighthouses, etc. at Perseverance Point (Port Blair, Andaman & Nicobar Islands), Mangalore (Mysore), False Devi Point (Andhra) has been in progress.

MAJOR PORTS (1966-67)

Ports	Receipts	Expenditure	No. of passengers embarked	No. of passengers disembarked	Imports in tonnes	Exports in tonnes
Bombay@	24,85,09,314	22,09,64,715	59,492	62,769	12.44*	4.52*
Calcutta	20,45,46,142.00	23,57,02,114.90	9,678	115	57,92,573	43,12,143
Cochin	2,65,52,265	2,48,51,190	1,201	2,138	30,72,124	5,97,525
Kandla@	188.95 lakhs	179.82 lakhs	79,025	77,804	22,60,012	2,05,059
Madras@	8,01,33,327	7,07,43,885	34,042	39,984	37,92,677	20,70,142
Mormugao	1,97,74,780.65	1,27,77,531.48	10,242	10,743	3,96,764	76,88,932
Visakhapatnam	5,06,76,318	3,92,11,172	—	—	22,27,003	37,12,429

@ Figures are for 1967-68.

* Million tonnes.

Bombay : The Port of Bombay owns landed estates extending over 1,300 acres from Pilot Bunder to Wadala and the docks cover an area of 700 acres. Sassoon Dock has a water area of 3½ acres and limited facilities for five ships of 1,000 tons.

Besides the docks there are a number of "Bunders" or open wharves along the harbour front with a total quayage of about 12 kilometres. These bunders handle approximately 9.08 million tonnes.

Repair facilities for shipping are provided at two dry-docks — Hughes and Merewether.

The Port maintains its own railway system which serves the docks, ten local stations and a large number of sidings on the Port Trust estates. It also connects the main line railways.

For heavy lifts, besides the 110 and 60 tons wharf cranes, the Port has two floating cranes, one of 60 tons and another of 125 tons capacity. Ten 10-ton mobile cranes and two 35-ton crawler cranes have been purchased in 1967-68.

The revised budget estimates of the Bombay Port for 1968-69 reveal a net surplus of about Rs. 4.83 lakhs as compared with the surplus of Rs. 275.45 lakhs in 1967-68. The traffic in 1968-69 is expected to be about 16.50 million tonnes.

Chairman : L. M. Nadkarni, I.C.S. ; *General Manager* : Govind H. Shah ; *Secretary* : S. D. Chittar.

Calcutta : There are two docks, Kidderpore Docks and King George's Docks. There are five dry docks two in King George's Docks and three in Kidderpore Docks.

There are nine jetties at the Strand Bank with a total length of 4,735 feet of which only five namely Nos. 2, 3, 7, 8 and 9 are available for ocean-going steamers.

Anchorage are available at Saugor Roads, Haldia, Kalpi, Diamond Harbour, Royapur, Ulubaria, Buj Buj and Garden Reach of which Royapur, Ulubaria, Buj Buj and Garden Reach are available only for deep-laden vessels outward bound or in emergency. The other anchorages are used by ships on passage to and from the Port.

There are petroleum wharves at Budge Budge about 14 miles below the entrances to the docks.

There are two tea warehouses, a grain and seeds depot at Kantapur, two sheds at Jhinjerapal, A and B sheds at Kidderpore, the Fairlie, Clive, Canning and Strand Warehouses situated close to the Calcutta jetties.

Kidderpore Dock No. 2 has six coal berths.

The port can handle over 12 million tonnes of traffic a year without congestion or delay.

The chief exports from Calcutta are coal, tea, sugar, gunnies, bone and bone-meal, bunker oil, iron and steel manufactures, lac, scrap, ores and mica. The principal imports are salt, food-grains and flour, sulphur, tinplate, machinery, petroleum, iron and steel, metals other than iron and steel, lubricating oil, cement, soda, timber, fertilisers, bricks, chemicals, oils, railway material.

Communication between the various points in the Docks and jetties is maintained by the Commissioners' Railway. About 75 ships can be given working accommodation in jetties, docks and river moorings in the Port.

The Port which extends from Budge Budge to Konnagar is administered by a Port Commission composed of representatives from the trade, Shipping Corporation, Municipality, Govt. of West Bengal, Railways, Customs and Defence Ministry.

Chairman : B. B. Ghosh ; *Dy. Chairman* : S. K. Ghosh ; *Secretary* : T. R. Raghupathi.

Cochin : The Port of Cochin is open for deep water traffic in the worst monsoons and provides a splendid anchorage at all times of the year. Any ship drawing upto 30 ft. draft can enter the port even in the roughest weather.

The Cochin Harbour Railway is connected with the Broad Gauge and Metre Gauge systems of the Southern Railway. Inside the Harbour there are 12 stream berths, 2 coal berths, 8 wharf berths, 1 Boat Train Pier Jetty with facilities for discharging and loading bunker oil and two tanker berths. One of the twelve stream berths is a swinging berth capable of accommodating vessels upto 565 ft. overall in length and 28 ft. draft. The tanker berths in the Ernakulam Channel provide facilities to discharge oil direct to the shore installations. The length of each of the wharves is 2,000 ft. and vessels of the above length can be accommodated at some of the berths.

The principal imports are foodgrains, mineral oils, coal, cashewnuts, hardware, chemicals and manure. The principal exports are coir and coir products, tea, rubber, cashew kernels, coconuts, spices and ores.

Chairman : K. P. K. Menon, I.A.S.

Kandla : The major port of Kandla has now the following main facilities :—

A Cargo Jetty with (a) 823 m. of quayage and designed depth of 9.8 m. of water alongside at L.W.O.S.T. to accommodate four large size ships or five liberty type ocean-going vessels ; (b) Three single storeyed transit sheds, each 137 m. long and 42 m. wide, with a total storage

capacity of about 15,000 tons of cargo ; (c) Broad Wharves served with three dual gauge (BG & MG) railway lines and roads ; (d) 21 electric quay cranes, the most modern type of 3 tons, 6 tons and 10 tons capacities with 25 m. each ; (e) Spacious open stacking grounds served with railway and road sidings ; (f) Four double storeyed Warehouses, each with storage capacity of 15,000 tons, with overbridge connections to the roofs of the transit sheds, and provided with modern cargo lifts, chutes and loading platforms ; (g) 'Grinnel' automatic sprinkler and fire alarm system has been provided in one warehouse as a measure for protection against fire, for the storage of cotton cargo in the warehouse ; (h) The construction of an additional 342 m. of quay, designed for a depth of 9.8 m. of water at L.W.O.S.T. has been completed except for the work of dredging alongside.

The port is equipped with the latest version of a harbour radar having a range of 32 k.m. with V. H. F. radio telephones and a coastal wireless station with about 805 k.m. range.

The port is connected to its hinterland at present by means of metre gauge, *via* Deesa-Palanpur and broad gauge rail link to Ahmedabad is under construction and will be completed by the beginning of 1970.

The construction of the National Highway connecting Kandla to Ahmedabad was nearing completion and expected to be ready by November, 1968.

A Free Trade Zone has been established at Kandla.

The chief imports are mineral oil, foodgrains, maize, chemicals, fertilizers and machinery whereas the principal items of export are zinc concentrate, iron scrap, salt, ethyl alcohol, cotton, sugarbones and bone meals.

271 ships and tankers had called during 1967-68.

Chairman : Commodore S. K. Chatterjee.

Secretary : Dr. R. P. Bhargava.

Madras : There is accommodation for 21 vessels inside the harbour, 3 at Moorings and 18 at Quays besides the dangerous Petrol mooring outside the North Groyne.

The depth at moorings and quay berths ranges from 7.9 metres to 11.00 metres.

The chief imports are coal, foodgrains, mineral oils, metals, timber, textiles, machinery, hardware, paper including old newspapers, dyeing and tanning substances, chemical manures, asphalt, chemicals, cotton, building materials, iron and steel, sulphur etc.

Ores, piecegoods, hides and skins (raw and tanned), onions, raw tobacco, twist and yarn, mica, vegetables and provisions, textiles, turmeric, groundnut oil, oil cakes, molasses, scrap etc. form the principal exports.

The affairs of the Port are administered by a Board of Trustees.

Chairman : V. Karthikeyan, I.A.S.

Secretary : T. K. Parameswaran Nambiar.

Vishakapatnam : Ships drawing upto 33 ft. and having a length up to 640 ft. can enter the harbour.

The harbour now provides the following facilities :

The inner harbour consists of a turning basin, six quay berths, three jetty berths etc. The first four quay berths were equipped with portal electric cranes, transit sheds, and railway lines, both behind and on the quay-side. The quay berths Nos. 1 and 2 are specially equipped and reserved for the expeditious handling of manganese and iron ore, ferro-manganese and pig iron : on an average, approximately 3,000 tons are loaded in a day. Quay berth No. 3 is used exclusively by ships discharging foodgrains and Nos. 4 is usually allotted to vessels discharging fertilizers and for loading and unloading heavy lifts. Quay berths Nos. 5 and 6 were commissioned with effect from 5-3-68 and 6-11-68. These two berths are allotted for general cargo vessels.

The port has floating cranes capable of dealing with heavy lifts upto 60 tons capacity.

The Port Trust is administered by a Chairman appointed by the Government of India.

Chairman : H. Sambamurti.

Secretary : T. S. Narasimhan.

EAST COAST PORTS

Ports	Receipts for 1967-68 Rs.	Expenditure for 1967-68 Rs.	No. of pass- engers em- barked and disembarked, 1967-68	Imports in tons, 1967-68	Exports in tons, 1967-68	Weight of cargo in tons handled in 1967-68
Rheemunipatnam	70.75	6,148.05	Nil	Nil	Nil	Nil
Cuddalore	10,28,631.99	14,14,483.67	—	1,27,403.5	1,12,971.0	2,40,374.5
Kakinada	10,87,566.37	10,78,688.57	Nil	54,110	4,23,632	4,77,742
Machilipatnam	11,459.39	86,434.79	Nil	Nil	Nil	Nil
Nagapattinam	3,96,879.19	3,70,294.33	22,197	94,434.1	16,897.1	1,11,331.2
Tuticorin	73,72,936.00	66,51,905.00	15	6,00,541	4,90,965	10,91,506.0

MAHARASHTRA STATE PORTS
(Under Ports Organisation)

Ports	No. of passengers embarked & disembarked, 1967-68	Imports in tons, 1967-68	Exports in tons, 1967-68	Weights of cargo in M. tons handled in 1967-68
Vengurla group	85,619	15,915	2,43,626	2,59,541
Vijaydurg group	1,28,475	15,068	7,840	22,908
Ratnagiri group	1,30,005	62,609	8,461	71,070
Rajpuri group	33,698	1,699	37,156	38,855
Bandra group	12,06,392	61,241	4,14,762	4,76,003
Total	15,84,189	1,56,532	7,11,845	8,68,377

Chief Ports Officer, Maharashtra State, Head Quarters, Bombay-1 : Capt. V. V. Javadekar.

Total receipt and expenditure of Maharashtra State ports for 1967-68 respectively were Rs. 7,33,714 and Rs. 33,29,680.

GUJARAT PORTS

There are 48 ports in Gujarat State. Out of this Kandla Port is a major port. Two other ports Diu and Daman are centrally administered. The remaining 45 ports contain 10 intermediate ports and 35 minor ports. These Gujarat ports have earned a foreign exchange of nearly Rs. 33 crores during the year 1967-68 as compared to the previous year's earning of Rs. 27 crores.

The cargo handled during the year ending 31st March 1968 was 36,31,387 tonnes in comparison to the previous year's traffic of 35,70,162 tonnes. This shows an increase

of 61,225 tonnes in traffic during the year 1967-68. The imports traffic was 17,07,658 tonnes i.e. 47.02 per cent of total traffic and exports traffic amounted to 19,23,729 tonnes i.e. 52.98 per cent of total traffic.

The overall position of traffic in tonnes at Gujarat State Ports classified into various groups during 1967-68 remained as under:—Mandvi 1,82,429; Bedi 10,68,541; Okha 7,50,331; Porbandar 2,82,308; Veraval 3,39,039; Mahuva 1,50,591; Bhavnagar 7,65,260; Broach 92,888; Total: 36,31,387.

WEST COAST PORTS

Ports	Receipts (1967-68) Rs.	Expenditure (1967-68) Rs.	No. of passengers embarked and disembarked, 1967-68	Imports in metric tons, 1967-68	Exports in metric tons, 1967-68	Weight of cargo handled in metric tons, 1967-68
Alleppey	1,64,982	2,36,349	Nil	7,103	20,646	27,749
Calicut	7,48,151	4,83,371	3,830	2,01,138	1,21,392	3,22,530
Trivandrum	10,222	31,884	Nil	9,308	Nil	9,308
Quilon	66,311	18,361	Nil	47,838	4,142	51,980
Koiltthottam	14,600	9,350	Nil	Nil	18,800	18,800
Mangalore	10,87,434	12,63,518	15,430	1,63,998	3,24,250	4,88,248
Tellicherry	11,219	39,924	Nil	8,080	1,307	9,387

LABOUR

THE general position is as follows:—

Total Labour Force (1961-census): 18,86,75,500.

Estimated increase during the Third Plan: 17 million.

No. employed in factories coming under the Factories Act of 1948 during the first half of 1966: 45,98,568.

No. of trade unions on register during 1964-65: 12,874.

No. of trade unions which submitted returns of membership: 7,155.

No. of members of trade unions submitting returns: 40,82,000.

The Central co-ordinating authority in India for questions connected with labour legislation is the Ministry of Labour and Employment of the Government of India with the Labour Minister in charge. The administration of matters, connected with the English and Indian Merchant Shipping Acts, the Mercantile Marine Department and Indian Seamen is with the Ministry of Transport. In respect of all the Railways, the Labour Minister is responsible for the administration of the Payment of Wages Act, 1936, trade disputes, hours of work for employees not covered by the Factories Act and regulation of employment of children. He is also responsible for regulation of labour and safety in respect of mines and oilfields; trade disputes in industries, businesses or undertakings carried on by the Central Government, and inter-State migration.

The following Acts govern labour conditions and relations in India: 1. Indian Factories Act, 1948; 2. Indian Mines Act; 3. Payment of Wages Act; 4. Minimum Wages Act; 5. Workmen's Compensation Act; 6. Maternity Benefit Acts (States); 7. Indian Trades Union Act; 8. Industrial Disputes Act; 9. Industrial Disputes (Appellate Tribunal) Act; 10. Tea Districts Emigrant Labour Act; 11. Shop Assistants Acts (States); 12. Em-

ployees' State Insurance Act; 13. Collection of Statistics Act; 14. Employees Provident Funds Act; 15. Dock Workers' Act; 16. Working Journalists' Act; 17. Plantation Labour Act; 18. Shops and Commercial Establishments Act; 19. Industrial Employment (Standing orders) Act, 1946; 20. Motor Transport Workers Act, 1961; 21. The Apprentices Act, 1961. Details of the above Acts were given in the 1968 Directory.

FACTORY STATISTICS

Under the provisions of the Factories Act, 1948, registered factories submit annual and half yearly returns on employment to the Chief Inspectors of Factories in the various States. All-India figures are compiled by the Labour Bureau and are published in the *Indian Labour Journal*.

The number of factories on registers in the areas covered by the Act during the first half of 1965 and 1966 were 61,857 and 63,261 respectively.

The number of factories working and average daily number of persons employed respectively during the half-year ending 30th June 1966 in the following industries: Processes Allied to Agriculture (Gins & Presses) (2,734; 1,41,171); Food (except Beverages) (19,484; 5,83,754); Beverages (207; 10,669); Tobacco (1,898; 1,63,689); Textiles (5,861; 12,42,010); Footwear, other Wearing Apparel and Made-up Textile goods (362; 41,240); Wood and Cork (except Furniture) 3,863; 72,165); Furniture and Fixtures (499; 21,670); Paper and Paper Products (419; 57,510); Printing, Publishing and Allied Industries (3,406; 1,22,141); Leather and Leather Products (Except Footwear) (490; 26,945); Rubber and Rubber Products (540; 56,819); Chemical and Chemical Products (1,923; 1,97,819); Products of Petroleum and Coal (220; 18,614); Non-metallic Mineral Products (except Products of Petro-

leum and coal) (2,743 ; 2,31,292); Basic Metal Industries (2,024 ; 2,53,317); Metal Products (except Machinery and Transport Equipment) (3,946 ; 2,01,299); Machinery (except Electrical Machinery) (5,097 ; 3,22,837); Electrical Machinery, Apparatus, Appliances and Supplies (1,139 ; 1,50,698); Transport Equipment (2,826 ; 4,47,284); Miscellaneous Industries (2,251 ; 1,58,779); Electricity, Gas and Steam (822 ; 57,693); Water and Sanitary Services (233 ; 9,327); Recreation Services (Cinema Studios) (46 ; 3,648); Personal Services (Laundries, Dyeing and Cleaning) (228 ; 6,178); TOTAL : (63,261 ; 45,98,568).

Statewise Figures

The following para shows the average daily employment in factories in the first half of 1966 by States :

EMPLOYMENT IN MINES BY STATE 1966 AND 1967

States	Below ground		Opencast workings		Above ground		Total	
	1966	1967	1966	1967	1966	1967	1966	1967
	Males		M & F	M & F	M & F	M & F	M & F	M & F
Andhra Pradesh ..	21,843	21,449	8,795	8,440	10,057	9,654	40,695	39,543
Assam ..	2,195	1,884	600	742	6,701	8,204	9,496	10,830
Bihar ..	1,24,547	1,20,043	55,656	53,012	73,528	70,507	2,53,731	2,43,562
Delhi ..	—	—	177	141	20	16	197	157
Goa ..	—	—	12,197	11,786	1,155	1,550	13,350	13,336
Gujarat ..	5	6	6,287	5,512	2,300	2,717	8,541	8,235
Haryana ..	—	—	1,499	1,455	258	248	1,757	1,703
Himachal Pradesh ..	40	43	880	529	417	183	1,337	755
Kerala ..	—	—	631	416	304	359	935	775
Madhya Pradesh ..	32,100	32,205	33,881	31,295	24,751	24,791	90,732	88,291
Maharashtra ..	5,490	4,989	11,392	10,444	4,910	4,628	21,792	20,061
Mysore ..	7,604	7,566	16,304	14,716	6,632	6,475	30,540	28,757
Nagaland ..	49	—	—	—	116	—	165	—
Orissa ..	4,579	4,445	36,335	33,009	14,940	13,684	55,854	51,138
Rajasthan ..	2,915	2,633	11,838	10,386	4,627	4,311	19,380	17,330
Tamil Nadu ..	20	—	16,620	16,365	3,782	3,468	20,422	19,833
Uttar Pradesh ..	—	—	2,332	2,447	547	407	2,879	2,854
West Bengal ..	80,544	79,137	8,506	7,633	38,400	37,405	1,27,450	1,24,175
Total ..	2,81,931	2,74,400	2,23,927	2,08,328	1,93,395	1,88,607	6,99,253	6,71,335

EMPLOYMENT IN MINES BY TYPE OF MINING 1966 AND 1967

Average daily number of persons.

Minerals	Below ground		Opencast workings		Above ground		Total	
	1966	1967	1966	1967	1966	1967	1966	1967
	Males		M & F	M & F	M & F	M & F		
Coal ..	2,54,374	2,48,251	48,018	46,187	1,13,096	1,19,352	4,25,488	4,13,790
Mica ..	12,742	10,846	1,228	760	5,755	5,110	17,725	16,716
Manganese ..	1,861	1,978	34,882	33,476	10,240	9,335	46,983	44,789
Iron-ore ..	37	42	45,872	41,282	14,430	14,314	60,339	55,538
Gold ..	7,592	7,478	—	—	4,000	3,887	11,592	11,365
Limestone ..	—	—	46,126	42,231	9,288	9,255	55,614	51,486
Others ..	5,325	5,805	47,801	44,392	36,586	27,354	79,512	77,652
Total ..	2,81,931	2,74,400	2,23,927	2,08,328	1,93,395	1,88,607	6,99,253	6,71,335

Collieries :—During the month of Jan. 1968 the number of Collieries working was 770 and the workers employed in them were 3,92,681. The average cash earnings of the workers per week for the whole of India was Rs. 46.56 and the number of hours was 48.

STATISTICS OF WORKMEN'S COMPENSATION ACT

An annual note on the working of the Act is published regularly in the *Indian Labour Journal*.

The latest available statistics on the total number of cases and total compensation paid in Rs. respectively during 1963 to 1965 are as follows: 1963 : 1,17,259 ; 1,21,86,870 ; 1964 : 1,18,356 ; 1,62,18,246 ; 1965 : 1,64,401 ; 1,87,29,122.

Andhra Pradesh 2,37,027; Assam 70,569; Bihar 2,38,779; Gujarat 4,01,170; Kerala 1,93,772; Madhya Pradesh 2,10,718; Tamil Nadu 3,91,009; Maharashtra 9,15,124; Mysore 2,28,952; Orissa 68,283; Punjab 1,79,307; Rajasthan 76,016; Uttar Pradesh 4,23,647; West Bengal 8,68,847; Andaman & Nicobar Islands 2,801; Delhi 87,434; Himachal Pradesh 2,998; Manipur 554; Tripura 1,561; Total 45,98,568.

MINING STATISTICS

The average daily number of workers employed in mines in 1964, 1965, 1966 and 1967 was 686,761, 691,174; 699,253 and 671,335 respectively. A break-up of the figures for 1966 and 1967 is given below :—

The following is the accident rate per thousand workers and the average compensation paid in Rs. in the main industry groups respectively during 1965 : Factories 15.85 ; 132 ; Plantations 3.55 ; 195 ; Mines 87.53 ; 164 ; Railways 23.00 ; 169 ; Docks and Ports 45.44 ; 384 ; Tramways 57.02 ; 80 ; Posts & Telegraphs 1.06 ; 632 ; Building & Construction 12.29 ; 986 ; Municipalities 0.56 ; 711 ; Miscellaneous 294.52 ; 17 ; Average 34.31 ; 114.

MATERNITY BENEFIT PAID IN VARIOUS STATES, FACTORIES, PLANTATIONS AND MINES DURING 1966

States	Average No. of women employed in establishments submitting returns	No. of women who claimed maternity benefit in 1966	Total No. of women who were paid maternity benefit in full or in part	No. of cases in which bonus was paid	Total amount paid Rs.
<i>Factories :</i>					
Andhra Pradesh	86,509	77	77	3	11,290
Bihar	9,347	280	281	—	83,954
Gujarat	26,474	490	487	16	1,04,441
Haryana	802	—	—	—	—
Kerala	67,429	5,941	5,076	684	4,08,960
Madhya Pradesh	3,554	89	89	—	16,118
Maharashtra	10,182	123	133	30	29,371
Mysore	24,223	940	833	162	80,654
Orissa	3,131	50	50	—	11,147
Punjab	1,390	1	1	—	310
Tamil Nadu	44,391	1,028	662	702	65,638
Uttar Pradesh	2,997	14	14	19	7,455
West Bengal	10,056	165	157	—	27,708
Delhi	1,405	13	15	—	2,800
Pondicherry	1,182	103	103	—	4,394
Total	2,93,072	9,314	7,978	1,616	8,54,240
<i>Plantations :</i>					
Assam	2,13,880	29,424	28,479	—	35,84,113
Bihar	268	—	—	—	—
Kerala	38,280	8,513	8,493	41	8,24,567
West Bengal	66,585	16,876	16,301	—	17,65,239
Tripura	1,792	350	350	—	18,651
Total	3,20,805	55,163	53,623	41	61,92,570
<i>Mines :</i>					
Coal	8,618	1,629	1,483	—	5,30,024
Others	36,862	4,489	4,555	770	7,27,048
Total	45,480	6,118	6,038	770	12,57,072

AMOUNT OF MATERNITY BENEFIT PAID UNDER EMPLOYEES' STATE INSURANCE ACT, 1948 DURING THE YEAR 1966 :

The first figure indicates the Statewise No. of claims accepted and paid either fully or partially and the second the amount of benefit paid in Rs. in 1966 : Andhra Pradesh 804 ; 1,01,150 ; Assam 20 ; 1,577 ; Bihar 131 ; 34,741 ;

Gujarat 1,422 ; 2,13,804 ; Kerala 6,838 ; 11,15,144 ; Madhya Pradesh 396 ; 1,17,296 ; Maharashtra 1,719 ; 8,02,278 ; Mysore 1,364 ; 3,09,145 ; Orissa 71 ; 8,676 ; Punjab 144 ; 20,365 ; Rajasthan 159 ; 39,727 ; Tamil Nadu 1,723 ; 6,27,831 ; Uttar Pradesh 157 ; 13,026 ; West Bengal 1,004 ; 2,67,539 ; Delhi 126 ; 18,436 ; Total 16,078 ; 36,90,735.

STATISTICS OF TRADE UNIONS

Registered Trade Unions and Membership—March, 1965

States/Union Territories	Number of Unions		Membership of Unions Submitting Returns (000's)		
	On Register	Submitting Returns	Men	Women	Total
<i>Central Unions</i>					
Andhra Pradesh	1	1	1	..	1
Bihar	6	4	6	@	6
Gujarat	7	3	1	@	1
Maharashtra	47	26	181	3	183
Orissa	34	27	28	8	36
Punjab	78	56	13	@	13
Rajasthan	40	27	8	1	8

© Less than 500.

DIRECTORY & YEARBOOK

Registered Trade Unions and Membership—March, 1965—(Contd.).

States & Union Territories	Number of Unions		Membership of Unions Submitting Returns (000's)		
	On Register	Submitting Returns	Men	Women	Total
Tamil Nadu	64	41 (40)	115	1	116
Uttar Pradesh	11*	11	77	**	77
West Bengal	11	7	8	—	8
Delhi	35	30 (28)	210	4	214
Himachal Pradesh	1	1	**	**	**
Total	335	234 (231)	647	17	664
<i>State Unions</i>					
Andhra Pradesh	809	463	182	50	233
Assam	173	87	202	46	249
Bihar	665	536	376	34	410
Gujarat	506	225	161	10	171
Kerala	1,726	576	109	40	150
Madhya Pradesh	406	139	70	7	77
Maharashtra	1,810	1,021 (1,019)	691	61	752
Mysore	403	298 (297)	123	19	142
Orissa	136	82	29	3	31
Punjab	629	420	97	1	98
Rajasthan	343	234	44	2	46
Tamil Nadu	1,217	660 (659)	241	16	258
Uttar Pradesh	1,218*	1,139 (1,138)	344	4	348
West Bengal	2,175	1,067	666	38	705
Andaman & Nicobar Islands	11	11	2	—	2
Delhi	353	286 (270)	109	2	111
Himachal Pradesh	28	25	5	**	5
Manipur	13	8	1	**	1
Pondicherry	19	15	7	1	8
Tripura	48	17	5	2	7
Total	12,688	7,309 (7,288)	3,466	336	3,803
Total of Central and State Unions	13,023	7,543 (7,519)	4,113	353	4,466

Notes :—1. The figures do not include information for Jammu and Kashmir. 2. The figures have been rounded up in thousands and as such the totals may not necessarily tally. 3. Figures in brackets in column 3 in a few cases indicate the number of unions to which the information given in columns 4 to 6 relate. * Estimated. ** Less than 500.

The number and membership of the four Central Trade Union Organisations recognised by the Central Government, viz. the Indian National Trade Union Congress, the

All-India Trade Union Congress, the Hind Mazdoor Sabha and the United Trades Union Congress, were as follows :

Name of Organisation	No. of Affiliated Unions		Membership	
	1965-66	1966-67	1965-66	1966-67
Indian National Trade Union Congress..	2,000@	2,054†	20,08,183@	20,07,619†
All India Trade Union Congress.. ..	1,710*	2,068@	11,76,466*	12,05,789@
Hind Mazdoor Sabha	501	498@	7,98,540	7,67,838@
United Trades Union Congress	354†	374@	1,98,216†	2,21,462@

@ As on Dec. 31, 1966.

† As on Nov. 1967.

* As on 1964-65.

† As on Dec. 31, 1965.

STATISTICS OF INDUSTRIAL DISPUTES*

Statistics presented in this section relate to industrial disputes which have resulted in work-stoppages involving 10 or more workers and exclude sympathetic and political strikes and closures not connected with industrial disputes, i.e., shortage of raw materials, breakdown of machinery etc.

The time losses in million man-days due to industrial disputes were 4.9 in 1961, 6.1 in 1962, 3.3 in 1963, 7.7 in 1964, 6.5 in 1965 and 13.8 in 1966.

* During 1968, 7,728,797 man-days were lost due to strikes and 6,104,944 man-days due to lockouts.

There were 2,556 industrial disputes during 1966 as compared with 1,835 during 1965.

As compared with 1965, there was an increase of 42.3 per cent in time-loss due to industrial disputes in 1966. The time-loss was over 20 lakh man-days in March and September and over 10 lakh man-days in July, August and October 1966. The lowest time-loss was in January 1966 which was 3.76 lakh man-days.

Out of 2,556 disputes reported during 1966, lockouts were declared in 203 cases involving 1.48 lakh workers which accounted for a time-loss of 3.47 million man-days.

Analysis of the statistics by industries shows that the manufacturing division accounted for 66.1 per cent of the total time-loss during the year 1966. Among other sectors, agriculture, forestry, fishing, etc. accounted for 17.0 per cent, transport and communications for 4.8 per cent, services for 4.4 per cent, mining and quarrying for 3.2 per cent, construction for 1.8 per cent., activities not adequately described for 1.7 per cent., electricity, gas, water and sanitary services for 0.9 per cent, and commerce for 0.1 per cent. In the manufacturing sector, the highest time-loss was recorded by the group 'textiles' (61.1 per cent). As compared to the preceding year, the time-loss increased in all but two major industry groups, viz., mining and quarrying, and electricity, gas, water and sanitary services.

Classifying the disputes by causes, 'wages and allowances' accounted for 612 (35.8%) disputes followed by 'others' and 'personnel' which accounted for 591 (23.3%) and 532 (21.0%) cases respectively. Disputes relating to 'wages and allowances' and 'personnel' contributed together 56.8 per cent of the total number of disputes for which the relevant information was available and accounted for 41.5 per cent of the total number of workers involved and 46.7 per cent of the total time-loss.

From the point of view of employees, 31.6 per cent were successful, 16.5 per cent were partially successful and 31.4 per cent were unsuccessful. In 20.5 per cent of the disputes work was resumed without any final decision having been reached.

According to their duration, 30.8 per cent of the disputes lasted for a day or less; 27.3 per cent for upto 5 days; 14.8 per cent for 6 to 10 days; 12.8 per cent for 11 to 20 days; 5.1 per cent for 21 to 30 days and 9.2 per cent for more than 30 days.

Of the 2,453 terminated disputes during 1966, 1,005 were terminated as a result of Government intervention, 680 by mutual settlement, 662 by voluntary resumption and 55 by other methods of settlements. In case of 51 disputes, the method of settlement was not known.

The following table sets out the number of disputes in some of the years since 1964, the number of workers involved in these disputes and the total time lost in man-days:

Year		Number of disputes	Number of work people involved	Number of man days lost
1964	..	2,151	10,02,955	77,24,694
1965	..	1,835	9,91,158	64,69,992
1966	..	2,556	14,10,056	1,38,46,329

Number of disputes resulting in work-stoppage, workers involved and man-days lost respectively for the year 1966 (Statewise): Andhra Pradesh (127; 55,327; 5,62,258); Assam (55; 30,826; 71,647); Bihar (90; 41,724; 2,57,679); Gujarat (80; 16,751; 1,38,849); Haryana (6; 600; 11,194); Jammu & Kashmir (2; 3,595; N.A.); Kerala (307; 1,18,958; 22,96,321); Madhya Pradesh (132; 38,869; 1,71,530); Madras† (181; 96,175; 6,78,043); Maharashtra (810; 5,41,051; 36,93,294); Mysore (107; 82,880; 5,23,366); Orissa (13; 15,239; 17,704); Punjab* (50; 22,955; 3,15,374); Rajasthan (39; 11,710; 49,953); Uttar Pradesh (169; 1,17,992; 9,94,937); West Bengal (284; 1,87,018; 38,12,861); Andaman & Nicobar Islands (7; 1,779; 1,913); Delhi (77; 21,514; 2,18,873); Goa (6; 1,820; 2,234); Himachal Pradesh (—; —; —); Manipur (—; —; —); Pondicherry (4; 1,640; 10,900); Tripura (10; 1,633; 17,399); Total: (2,556; 14,10,056; 1,38,46,329).

* Relates to composite Punjab upto 31st Oct. 1966 and to re-organised Punjab from 1st Nov. 1966. to only 274 plantations; the full employment in 650 plantations is about 77,000 workers.

N.A. Not available.

† Now called Tamil Nadu.

† This relates

WORKING JOURNALISTS' ACT

(See under article on the Press)

CERTAIN STATISTICS ON THE WORKING OF THE EMPLOYEES' PROVIDENT FUNDS ACT

No. of industries covered: 119 (upto 31-8-1968).

No. of covered establishments (both exempted and un-exempted): 42,594 (as on 31-8-1968).

No. of subscribers: 53 lakhs (as on 31-8-1968).

Amount of Provident Fund contributions as on 31-8-1968:

(i) Provident Fund Contributions collected: Rs. 1,208.64 crores.

(ii) Amount paid as loans, advances, in final settlement of claims, etc.: Rs. 407.57 crores.

(iii) Amount invested in Government Securities: Rs. 805.66 crores.

Total contribution during 1967-68: Rs. 174.99 crores against Rs. 148.35 crores in 1966-67.

No. of unexempted establishments covered under the Act up to the end of Aug. 1968: 40,595; No. of subscribers in such establishments: Over 33,76,920; total accumulations of provident fund in such establishments: Rs. 552.91 crores; Amount of provident fund invested in such establishments: Rs. 410.13 crores.

Rate of interest at present on members' contributions: 5½ per cent (for 1968-69).

The provident fund contributions are invested in Central and State Govt. Securities and other Govt. guaranteed securities. The interest received on investments till 31-8-1968 amounted to Rs. 71.82 crores.

The number of establishments covered on a voluntary basis rose from 1032 to 1265 upto 31-3-1968.

PLANTATION STATISTICS

The total No. of estates/plantations covered by the Act and average daily labour employed in various States/Union Territories during 1966.

Assam (673; 4,67,763); Bihar (13; 418); Kerala (402; 1,10,347); Mysore (650; 23,234†); Tamil Nadu (293; 73,180); Uttar Pradesh (12; 1,071); West Bengal (273; 1,65,292); Himachal Pradesh (17; 1,171); Tripura (45; 4,387).

STATISTICS UNDER SHOPS AND COMMERCIAL ESTABLISHMENTS ACT

The number of shops and commercial establishments and the number of persons employed by States for 1965 respectively are given below.

Andhra Pradesh (1,40,446; 1,26,925); Assam (11,692; 15,895); Bihar (37,835; 30,147); Gujarat (1,60,228; 1,66,024); Jammu & Kashmir (6,599; 6,295); Kerala (42,992; 79,824); Madhya Pradesh (87,917; 60,869); Maharashtra (2,95,039; 5,81,323); Mysore (99,908; 1,34,548); Orissa (6,165; 26,278); Punjab (1,96,982; 1,18,499); Rajasthan (1,59,363; 86,024); Tamil Nadu (1,88,623; 2,13,078); Uttar Pradesh (2,04,672; 2,24,511); West Bengal (2,95,816; 5,46,874); Andaman & Nicobar Islands (379; 602); Delhi (99,918; 1,81,186); Himachal Pradesh (2,425; 1,545); Manipur (2,121; 3,158); Pondicherry (2,369; 7,461); Tripura (1,448; 2,234); Total (20,42,937; 26,13,300).

WAGES

Central Wage Boards were set up for eight industries — cotton, cement, jute, coffee plantations, tea plantations, rubber plantations, sugar, iron-ore, limestone and dolomite mining industries. All the eight Boards have made their reports. (See under individual industry.)

The Central Wage Board for Heavy Chemicals and Fertilizers Industry set up by the Government in April 1965 has made recommendations for the grant of interim relief to the workers in the units covered by it. The recommendations which are effective from 1st November 1966 have been accepted by the Government.

The second Central Wage Board for the cotton textile industry in India has submitted its report to the Government of India.

The function of a Wage Board is to fix a wage structure on the principle of fair wages.

A steering group consisting of representatives of Government, employers and workers is engaged in drawing up a wage map of India both industry-wise and region-wise to serve as a guide for authorities who have to fix wages.

Average per capita annual earnings in Rs. in States of factory employees drawing less than Rs. 400 per month for the years 1964 and 1965 respectively are as follows: Andhra Pradesh (1,168; 1,261); Assam (1,631; 1,861); Bihar (1,749; 1,967); Gujarat (1,888; 2,136); Jammu & Kashmir (782; 751); Kerala (1,256; 1,402); Madras* (1,508; 1,897); Madhya Pradesh (2,013; 1,828); Maharashtra (2,031; 2,242); Mysore (1,696; 1,944); Orissa (1,786; 1,881); Punjab (1,418; 1,560); Rajasthan (1,412; 1,581); Uttar Pradesh (1,552; 1,700); West Bengal (1,696; 1,867); Andaman & Nicobar Islands (1,325; 1,439); Delhi (1,961; 2,193); Himachal Pradesh (1,433; 1,109); Tripura (1,622; 1,336); All-India Average (1,745; 1,948). * Now called Tamil Nadu.

MINIMUM WAGES AND DEARNESS ALLOWANCE IN THE COTTON MILL INDUSTRY FOR A STANDARD MONTH OF 26 WORKING DAYS

Period	Ahmed- abad	Banga- lore	Baro- da	Bom- bay	Coim- batore and Madras	Delhi	Indore	Kan- pur	Nag- pur	Shola- pur	West Bengal
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Min. Basic Wages ..	38.00	40.00	36.00	40.00	40.00	40.00	38.00	38.00	34.00	34.00	36.17
D.A. Monthly											
Average 1965 ..	125.90	N.A.	113.31	127.08	115.14	97.23	88.78	101.92	101.65	96.33	60.81
„ 1966 ..	138.80	116.17	124.92	148.62	125.49	114.16	101.35	106.76	102.81	113.82	70.03
„ 1967 ..	172.77	124.20	155.50	167.56	137.34	135.50	118.78	135.39	115.95	129.63	82.01
1967 January ..	156.14	115.80	140.53	157.65	138.08	130.17	112.50	116.26	110.64	124.28	76.73
February ..	160.75	117.20	144.68	159.90	136.52	127.60	112.50	126.52	111.85	123.24	80.53
March ..	164.61	118.20	148.14	161.30	136.52	123.41	112.50	128.04	112.12	123.24	80.53
April ..	166.91	118.80	150.22	162.45	134.70	128.39	116.25	131.46	111.85	124.28	80.53
May ..	164.61	120.20	148.14	163.85	133.40	130.10	116.25	128.42	111.45	124.28	78.93
June ..	168.06	122.00	151.26	168.95	134.70	138.16	116.25	132.79	111.45	129.74	78.93
July ..	176.91	126.60	159.21	171.25	137.56	135.88	120.94	138.49	113.21	132.34	78.93
August ..	182.67	128.40	164.41	172.65	139.38	138.84	120.94	141.91	116.32	132.34	83.73
September ..	184.22	129.00	165.79	173.75	137.82	142.98	120.94	144.76	120.11	132.34	83.73
October ..	182.67	130.40	164.41	168.95	137.04	146.53	125.44	145.71	122.01	136.76	83.73
November ..	181.52	131.40	163.36	173.75	140.94	145.46	125.44	148.18	124.58	135.98	88.93
December ..	184.22	132.40	165.79	176.30	141.46	138.45	125.44	142.10	125.80	136.76	88.93

DEARNESS ALLOWANCE

The scale of the allowance varies not only from centre to centre and industry to industry, but also, except where these matters are adjudicated upon, from unit to unit in the same industry at the same centre.

Several Adjudicators have granted dearness allowance either at the Bombay Millowners' Association scale which was Rs. 180.00 in December 1968 or at a percentage, varying from 66½ per cent to 85 per cent, of that scale. The rate of dearness allowance payable to Bombay City cotton mill workers itself was increased by a decision of the Labour Appellate Tribunal by 5 per cent when the Bombay Cost of Living Index Number is between 326 and 335; by 7½ per cent when it is between 336 and 350; and by 10 per cent when it is above 350. The enhanced rate was given retrospective effect from May 1953; the average dearness allowance for a month of 26 working days comes to Rs. 167.56 for 1967.

COST OF LIVING

On the basis of the results of the fresh family living surveys conducted during 1958-59, new series of consumer price index numbers for industrial workers are now being compiled for 46 out of 50 centres selected for the purpose by the Labour Bureau. It was decided by the Technical Advisory Committee to adopt the Calendar year 1960 as the base period for all these new series of index numbers.

Labour Bureau, Simla has published new series of Consumer Price Index for industrial workers in all the centres except Tamil Nadu: Factory Centre—Madras, Madurai and Coimbatore and Plantation Centre—Coonoor.

Since August 1968, the Labour Bureau started publishing the All India Average Consumer Price Index Numbers for Industrial Workers with the base 1960 = 100, simultaneously discontinuing the Interim Series with the base 1949 = 100.

The following tables show the Consumer Price Index Numbers for Working Class for some of the important centres worked out (with base 1960 = 100) from the year 1966, although actual introduction of the new series for various centres took place at later periods.

Year/Month	ANDHRA PRADESH	ASSAM	BIHAR	GUJARAT	HAR- YANA	JAMMU & KASHMIR	KERA- LA	MADHYA PRADESH	MAHA- RASH- TRA
	Hyder- abad	Digboi	Jamshed- pur	Ahmed- abad	Yamuna- nagar	Srinagar	Alwaye	Indore	Bombay
	1	2	3	4	5	6	7	8	9
1966	154	155	152	140	153	151	156	154	143
1967	165	189	181	167	186	160	175	177	158
1968 January ..	170	193	177	164	178	153	192	183	169
February ..	169	193	175	165	176	152	189	181	165
March ..	164	194	168	158	173	150	190	173	165
April ..	162	190	171	161	181	151	187	173	169
May ..	163	191	173	160	180	153	191	170	165
June ..	166	191	175	161	180	150	203	173	167
July ..	169	199	175	162	186	150	203	178	166
August ..	175	197	178	166	190	150	207	182	166
September ..	182	194	178	172	196	153	203	186	167
October ..	183	189	176	174	196	153	209	184	166

Year/Month	MYSORE	ORISSA	PUNJAB	RAJA- STHAN	UTTAR PRADESH	WEST BENGAL	DELHI	ALL- INDIA AVERAGE	
	Banga- lore	Sambal- pur	Amritsar	Jaipur	Kanpur	Calcutta	Delhi	1949 = 100	1960 = 100
	10	11	12	13	14	15	16	17	18
1966	156	157	151	155	150	144	147	184	—
1967	169	169	177	180	170	159	168	209	—
1968 January ..	177	166	183	174	180	168	175	220	—
February ..	173	166	183	169	178	169	174	217	—
March ..	172	167	180	164	174	167	173	213	—
April ..	174	172	184	171	174	168	174	214	—
May ..	177	175	183	172	171	169	174	212	—
June ..	178	180	185	171	171	169	174	214	—
July ..	179	183	187	175	172	172	178	213	—
August ..	180	191	189	177	176	174	180	216	178
September ..	184	186	193	184	180	174	183	218	179
October ..	186	189	196	184	181	176	185	219	180

EMPLOYMENT AND TRAINING

National Employment Service

The National Employment Service, which was initially set up with the limited objective of registration and placement of employment seekers now provides necessary base for manpower, planning, and development of human resources.

Employment Exchanges†

The number of Employment Exchanges functioning at the end of August, 1968 was 404 which includes 13 Professional and Executive Employment Offices and 9 Special Employment Exchanges for Physically Handicapped. In addition 40 University Employment Information and Guidance Bureaux were also functioning.

At the end of August, 1968, there were 30,64,342 applicants on the live register of employment exchanges. During the one year period from September, 1967 to August, 1968, 7.05 lakh vacancies were notified to the employment exchanges and 4.14 lakh placements were effected

as against 7.56 lakhs and 4.66 lakhs respectively during September, 1966 to August, 1967.

At the end of August, 1968, 3,73,985 women employment seekers were on the live register of employment exchanges. During the year September, 1967 to August, 1968, 47,447 women applicants were placed in jobs.

Vocational Guidance & Employment Counselling

Employment Exchanges and University Employment Information and Guidance Bureaux are the main agencies of the National Emp. Service through which vocational guidance and employment counselling service are rendered. At present there are 177 employment exchanges and 41 University Employment Information and Guidance Bureaux where special vocational guidance and employment counselling facilities are made available to employment seekers, students and alumni.

Occupational Research & Analysis Programme

The Occupational Research and Information Programme of the National Emp. Service consists of various tasks of

† The number of unemployed people registered with various employment exchanges during 1968 was 4,039,516.

identifying, cataloguing and coding of occupations. In addition, different types of occupational information literature is published such as, Hand books on Training facilities, Guides to career on individual and group of occupations etc. This literature is useful for students, employment seekers, parents, career masters etc.

Employment of Handicapped

Special Employment Offices for the Physically handicapped are at present functioning at Bombay, Delhi, Madras, Hyderabad, Calcutta, Kanpur, Bangalore, Ahmedabad and Jullunder.

TRAINING OF CRAFTSMEN

At the end of the Third Five Year Plan the number of Institutes/Centres functioning under the Craftsmen Training Scheme was 357 and the total training places were 1,13,622. During the year 1966-67, 31,322 additional seats were sanctioned and during 1967-68 the number of additional seats sanctioned was 7,338. Thus during the Annual Plans 1966-69 the total number of additional seats sanctioned was 38,660. At present the total number of training places available is 1,40,584 in 356 Institutes.

Training of Craft Instructors

The scheme for the training of Craft Instructors has been designed to improve the efficiency of the Instructors both in the public and private institutions with a view to meeting the increasing demands of the country. The Government of India in the Ministry of Labour and Employment have set up 7 Central Training Institutes for Instructors, one of which meant exclusively for women is functioning in New Delhi while the other 6 are located at Calcutta, Bombay, Kanpur, Madras, Hyderabad and Ludhiana. The total training places at these Institutes is 2,628. Training is imparted in 18 engineering and 4 non-engineering trades and the duration of training is one year. These Institutes provide instruction in the theoretical aspects of the various trades and also impart practical instruction in the latest techniques of workshop practice.

Apprenticeship Act, 1961

Statistics: 195 industries and 50 trades have been covered under this Act upto the end of the year 1968. More industries and trades will be brought under the purview of this Act, as and when necessary.

About 32,000 registered apprentices were undergoing apprenticeship training in various establishments, both in the public and private sectors, in September, 1968. This number will be increased to one lakh by the end of the 4th Plan period to meet the need of skilled workers for all types of industries and trades specific to each type of industry.

The Government of India have entered into an agreement with the UNDP (Special Fund) Project, in accordance with which, for 5 years from now, assistance will be rendered by the Special Fund in the implementation

of the Apprentices Act, 1961, by way of preparation of teaching aids/materials, technical units/equipment, and fellowships for national counterparts of ILO Experts.

The Special Fund allocation is U.S. \$ 1,102,100 and the Govts' counterpart contribution in kind, is estimated at U.S. \$6,063,270. The executing agency for the Project is the ILO.

Four Regional Directorates of Apprenticeship have been set up earlier in 1968, at Kanpur, Calcutta, Bombay and Madras, for the implementation in the Central sphere, of the Act. Each State Govt. has its own organisation and State Apprenticeship Adviser for implementation of the Act in the State Sector.

Training-Cum-Orientation Course

Under the scheme, special instructions in business management are given to the selected trainees during the second half of the institutional training under the Craftsmen Training Scheme. Till now these revised courses had been sanctioned in Assam, Gujarat, Kerala, Madhya Pradesh, Tamil Nadu, Maharashtra, Mysore, Punjab, Haryana and Uttar Pradesh.

New Institutes:—(1) Advanced Training Institute, Madras: Set up with assistance from the United Nations Development Programme (Special Fund).

(2) Staff Training and Research Institute, Calcutta: Set up with collaboration of the Federal Republic of Germany.

(3) Foremen Training Institute, Bangalore: Set up with collaboration of the Federal Republic of Germany.

EMPLOYMENT IN FOREIGN COMPANIES

The position in regard to employment of Indians and non-Indians on salaries of Rs. 1,000 and above in foreign-owned/controlled concerns on the 1st of January each year was as follows:—

Year	Indians	Foreigners*	Total
1964	13,824	3,135	16,959
1965	16,302	3,014	19,316
1966	18,213	2,659	20,872
1967	21,067	2,218	23,285
1968	24,157	1,876	26,033

Between Jan. 1, 1966 and Jan. 1, 1967, the number of Indians drawing total monthly salaries from Rs. 1,000 to Rs. 2,000 increased from 13,015 to 14,916 while the number of non-Indians decreased from 304 to 138.

Salary-group Rs. 2,001 to Rs. 3,000; The number of Indians increased from 3,363 on Jan. 1, 1966 to 3,907 on Jan. 1, 1967 and that of non-Indians fell from 426 to 299.

Salary-group Rs. 3,001 to Rs. 5,000: The number of Indians increased from 1,873 on Jan. 1, 1967 to 2,161 on Jan. 1, 1968 and that of non-Indians declined from 709 to 528.

ABSENTEEISM

ABSENTEEISM IN MANUFACTURING INDUSTRIES IN INDIA (Percentage of man-shifts lost to man-shifts scheduled to work)

Period	Cotton Mill Industry								Woollen Industry	
	Bombay	Ahmedabad	Sholapur	Madras	Madura	Coimbatore	Kanpur	Mysore	Kanpur	Dhariwal
1965.. ..	18.4	..	15.3	9.8	14.1	13.1	12.5	18.4	8.7	15.5
1966.. ..	19.5	..	27.5	10.3	17.1	13.9	12.6	19.2	9.1	14.3
1967.. ..	18.6	10.2	31.0	..	..	..	11.9	..	10.1	..

* Excluding short-term foreign technicians.

ABSENTEEISM IN MANUFACTURING INDUSTRIES IN INDIA—Contd.

(Percentage of man-shifts lost to man-shifts scheduled to work)

Period	Engineering Industry			Tele-graph Work-shops	Tram-way Work-shops	Iron and Steel Industry	Ord-nance Facto-ries	Cement Facto-ries	Match Facto-ries	Leather Indus-try
	Bombay	West Bengal	Mysore	All India	All India	All India	All India	All India	All India	Kanpur
1965.. ..	15.6	13.7	14.0	..	..	..	..	..	..	..
1966.. ..	16.4	14.8	13.7	..	..	..	..	..	..	..
1967.. ..	16.4	15.6	..	..	..	..	..	..	..	..

EMPLOYEES' STATE INSURANCE CORPORATION

Headquarters Office :—ESIC Building, Kotla Road, New Delhi.

Regional Offices : See under ' Govt. of India Personnel '.

The Corporation applies to all non-seasonal factories using power wherein 20 or more persons work. All employees employed on a remuneration not exceeding Rs. 500 per month, are covered by this Act.

The scheme at present provides for medical care for the insured persons and in some areas for their families also and sickness, maternity, disablement and dependents' benefit in cash.

A new provision has been made for payment of funeral benefit not exceeding one hundred rupees towards the expenditure on the funeral of the deceased insured person.

The scheme covered an additional number of about 1,78,700 employees and about 2,10,550 family (insured person) units during 1967-68. A sum of Rs. 12,36,41,883 was disbursed by way of cash benefit during 1967-68.

The Employees' State Insurance Scheme covers about 36,84,500 insured persons working in 300 centres (as on March 31, 1968).

The total number of beneficiaries entitled to medical benefit is estimated about 1,37,62,550 including the members of families of workers (as on March 31, 1968). Upto October, 1968, 3.69 million insured persons were covered under the scheme. The total number of beneficiaries including insured persons was over 13.9 million.

The scheme is in force in all the States except Jammu & Kashmir.

Hospitals/Annexes/Dispensaries :—The Corporation has so far constructed and put into use 24 full-fledged Employees' State Insurance Hospitals with 4,435 beds, 18 Employees' State Insurance Annexes with 438 beds and 115 State Insurance Dispensaries.

So far the Corporation has sanctioned Rs. 36.45 crores for capital project all over the country.

Employers' Special Contribution to the Corporation : Rs. 13,64,06,909; Employees' Contribution Rs. 12,44,28,148.

Budget Estimates for 1967-68 : Receipts : Rs. 26,65,86,500; Payments : Rs. 26,63,32,500; Surplus : Rs. 2,54,000.

Amounts (Rs.) distributed under some heads for 1967-68 are as follows :—

State	Sickness Benefits (including Extended Sickness Benefits)	Maternity Benefits	Disablement		Dependent Benefits (Capitalised value)
			T.D.B. (Actual Payments)	Capitalised value of P.P.D.	
Andhra Pradesh	24,39,102	89,645	1,99,116	1,58,200	4,500
Assam	2,11,986	1,167	19,681	44,300	22,400
Bihar	9,54,734	39,720	79,303	1,57,500	33,700
Delhi	20,20,887	24,468	2,36,547	4,83,900	69,400
Gujarat	55,30,790	1,87,887	8,44,569	14,89,500	5,51,100
Kerala	34,91,633	12,23,307	2,40,358	3,98,400	81,300
Madhya Pradesh	39,28,466	1,16,750	3,60,698	3,48,700	1,16,500
Maharashtra	3,22,91,425	9,32,718	20,37,732	34,81,400	8,51,200
Mysore	32,00,091	4,08,804	2,26,955	5,55,500	1,09,700
Orissa	7,57,856	14,155	68,668	55,800	2,900
Punjab	10,67,652	33,486	2,49,680	7,21,600	1,37,700
Rajasthan	6,64,905	39,413	95,137	2,90,100	37,300
Tamil Nadu	1,02,29,721	6,02,123	7,45,775	9,61,800	1,10,000
Uttar Pradesh	48,67,566	19,717	4,34,697	5,55,200	3,46,000
West Bengal	2,04,89,598	3,20,824	34,80,671	52,58,800	6,87,300
Total	9,21,46,412	40,54,184	93,19,587	1,49,60,700	31,61,000

ACCIDENTS

The Indian Factories Act requires the manager to report all accidents which cause death or bodily injury whereby the person injured is prevented from returning to his work in the factory during the 48 hours next after the occurrence of the accident.

It is the duty of the Inspector of Factories to make an investigation as soon as possible into the causes of and the responsibility for a fatal or serious accident, and to take steps for the prosecution of the person concerned if it is

Figures for the years 1965 and 1966 are given in the table below.

Year	FACTORIES			MINES		
	Fatal	Non-Fatal	Total	Fatal	Non-Fatal	Total
1965.. .. .	587	2,02,236	2,02,823	547*	3,298	3,845
1966.. .. .	461	1,87,716	1,88,177	315	3,210	3,525

WORKERS' EDUCATION SCHEME

A semi-autonomous body called the Central Board for Workers' Education consisting of the representatives of Government, employers, workers and educational institutions has been set up for carrying on workers' education. The Board is invested with full authority for the framing and execution of the programmes in cooperation with trade unions, educational institutions, etc. The Board gives grants-in-aid to unions and other institutions for undertaking programmes of workers' education.

The Board has so far opened 30 Regional and 49 Sub-Regional Workers' Education Centres in different parts of the country. Of the 49 Sub-Regional Centres, six have since been converted into full-fledged Centres.

The object of the Scheme is to create over a period of time, despite lack of general education, a well-informed, constructive and responsible minded industrial labour force capable of organizing and running trade unions on sound lines without leaning heavily on outsiders and without lending themselves to exploitation by extraneous interests.

During August 1968, 68 unit level classes were started under different regional centres all over India, in addition to 2,857 classes which were in existence by the end of previous month. By the end of August 1968, 6,54,549 workers were trained at the unit level and 39,724 were under training. The over-all number of workers trained under the Scheme by the end of August, 1968, was 7,50,053 including worker-teachers and 8,260 workers trained by grantees.

COAL MINES LABOUR WELFARE FUND

Object : To finance the measures for promoting the welfare of labour employed in the coal mining industry. The Fund is administered by the Central Govt. on the advice of an Advisory Committee consisting of Government Officers and equal number of members representing colliery owners and workers employed in the Coal Mining Industry with at least one woman.

The main source of income to the Fund is a cess levied on all coal and coke despatched from collieries by rail and road. The cess is being levied at the rate of 49.21 paise per metric tonne. The income of the Fund which was Rs. 354 lakhs during 1965-66 was expected to be Rs. 400 lakhs during 1966-67.

* Includes 268 killed in Dhorl disaster.

found that the death or serious injury resulted from any infringement of the provisions of the Act or of the rules framed under the Act.

The Department of Mines has been strengthened to facilitate more frequent inspection of mines. As an emergency measure, the Coal Mines (Temporary) Regulations, 1955 have been promulgated for the prevention of apprehended danger and for the speedy remedy of the conditions likely to cause danger. The entire codes of coal and non-coal mines regulations are being revised to provide for more comprehensive measures for safety in mines.

MICA MINES LABOUR WELFARE FUND

The Mica Mines Labour Welfare Fund Act, 1946, which was designed to constitute a similar fund for the benefit of mica mine workers, provides for the levy of an *ad valorem* duty not exceeding 6½ per cent on all mica exported from India. The present rate is however 2½ per cent *ad valorem*. The collections are allocated for expenditure of welfare measures among the various mica mining areas (*viz.* Bihar, Andhra Pradesh and Rajasthan) in proportion to their average production. The present rate of allocation for Bihar is 47.3 per cent. The annual recurring expenditure on welfare measures already introduced in Bihar is to the tune of Rs. 28 lakhs and the annual income of the Fund is about Rs. 30 lakhs. The accumulated balance to the credit of Bihar is about Rs. 175 lakhs.

MINIMUM WAGES

Minimum wages for agricultural workers have been fixed in most of States and by the Central Govt. in certain agricultural farms/research institutes, military farms and depots and archaeological gardens at Delhi, Agra, Lucknow, Deeg and Khajuraho.

Consumer Price Index numbers for agricultural Labour on base 1960-61 (July-June) = 100 from Sept. 1964 onwards are being published by the Labour Bureau, Govt. of India for 15 States, or group of States together with all India figures, regularly every month in the *Indian Labour Journal*.

National Commission on Labour

The Government of India appointed in December 1966 the National Commission on Labour under the chairmanship of Shri P. B. Gajendragadkar, former Chief Justice of India, to review, among other matters, the existing legislative and other provisions intended to protect the interests of labour, to assess their working and to advise, *inter-alia*, how far these provisions serve to implement, in the field of labour, the Directive Principles of State Policy embodied in the Constitution. The Commission's report was expected by May 1969.

Code of Discipline

The Code of Discipline lays down certain do's and don'ts both for managements and unions with a view to ensuring better discipline in industry. The Code applies to both the public and the private sectors.

More details are given in the 1968 Directory.

During 1968, the Central Implementation and Evaluation Division received 691 complaints of alleged breaches of the Code of Discipline and of the Industrial Truce Resolution in the Central sphere. Of these, 254 did not require any specific action as they had already been reported to other organisations and were referred to the Division only for information or pertained to cases which were subjudice or did not involve any union. Of the remaining 437 cases, 69 were not substantiated on enquiry; in 45 the parties were brought together and mutual settlements reached; in 92 the infringements were either got rectified or the parties were advised to avoid them in future; the remaining 231 cases have been taken up with the parties concerned for rectification or were under investigation.

Voluntary Arbitration

Settlements of disputes by voluntary arbitration is advocated both by the Code of Discipline and the Industrial Truce Resolution. During 1968 employers and workers agreed to settle their disputes through voluntary arbitration in 113 out of 1,137 cases in the Central sphere in which conciliation had failed. In order to ensure that employers and workers take greater recourse to this voluntary approach, a National Arbitration Promotion Board was set up in July 1967 under the chairmanship of the Additional Secretary in the Department of Labour and Employment. The Board has, besides the Chairman, representatives of Govt., the central organisations of employers and workers and the public sector undertakings.

Evaluation Studies

Besides looking after the implementation of the Code of Discipline and the Industrial Truce Resolution, the Central Implementation and Evaluation Division in the Union Ministry of Labour, Employment and Rehabilitation has been regularly conducting evaluation studies into the industrial relations and implementation of labour laws, etc., in both public and private sector undertakings.

The following undertakings were covered during 1968 :—

- (i) Hindustan Antibiotics Limited, Pimpri, Poona;
- (ii) Delhi Transport Undertaking, Delhi;
- (iii) Indian Oil Corporation Limited, Gujarat Refinery;
- (iv) Hindustan Machine Tools, Hyderabad;
- (v) Shipping Corporation of India;
- (vi) Steel Plant Private Limited, Bombay;
- (vii) Indian Rayons Corporation Limited, Veraval;
- (viii) Hindustan Motors Limited, Hyderabad;
- (ix) New Jamehary Khas Colliery, Asansol.

JOINT MANAGEMENT COUNCILS

As of June 1, 1968, Joint Management Councils were functioning in 132 establishments 48 in the Public Sector and 87 in the Private Sector. These include manufacturing, mining, plantations and banking industries.

The role of Joint Management Councils in labour policy is under Study by the National Commission on Labour.

TRIPARTITE LABOUR MACHINERY

The Tripartite Labour Machinery at the Centre consists of (a) Indian Labour Conference, (b) Standing Labour Committee and (c) Industrial and other Committees. There is also the Labour Ministers' Conference, which though not tripartite in character, is closely associated with the tripartite labour machinery.

The Indian Labour Conference and the Standing Labour Committee advise the Government of India on all labour matters referred to it.

The Standing Labour Committee functions as an independent body.

The Industrial Committees have been set up to consider the problems peculiar to individual industries and make suitable recommendations. The Tripartite Committee on Conventions considers questions relating to the implementation of I.L.O. Conventions and Recommendations.

LABOUR ADMINISTRATION

Apart from the main Secretariat of the Ministry of Labour it has several attached and subordinate offices. The activities of some of these have been described in the relevant sections, such as Miners' Welfare Fund, and notes on some others are briefly given below.

Chief Labour Commissioner

In the Ministry of Labour, Employment and Rehabilitation.—The Chief Labour Commissioner is responsible for prevention and settlement of industrial disputes, enforcement of labour laws, promotion of labour welfare and maintenance of healthy relations in the undertakings falling in the Central sphere and verification of membership of trade unions. The Indian Institute of Labour Studies has also been set up under him for imparting specialised training to the officers of the industrial relations machinery at the Centre and in the States. There are four Deputy Chief Labour Commissioners and twelve Regional Labour Commissioners working under him.

DIRECTORATE GENERAL OF FACTORY ADVICE SERVICE AND LABOUR INSTITUTES

The Directorate advises the Government, industry and other interests concerned on matters relating to safety, health and welfare of workers.

The Central Labour Institute, Bombay and the three Regional Labour Institutes in Calcutta, Madras and Kanpur have been set up to function as socio-economic laboratories and carry out education, training and research on all aspects of Industrial development as relating to the human factor.

The Regional Labour Institutes conduct programmes with the assistance of the specialist staff attached to these branches and also carry out follow-up work on the problems tackled.

EMPLOYMENT FOR HANDICAPPED

Special Employment offices for the physically handicapped are at present functioning at Bombay, Delhi, Madras, Hyderabad, Calcutta, Kanpur, Bangalore, Ahmedabad and Jullundur.

VOCATIONAL REHABILITATION CENTRES FOR PHYSICALLY HANDICAPPED

Two Vocational Rehabilitation Centres for the Physically Handicapped one each at Bombay and Hyderabad have been set up with the assistance of Vocational Rehabilitation Administration of U.S.A., for the vocational evaluation and adjustment of Physically Handicapped persons.

INDIA AND THE I.L.O.

India joined this organisation at the very start and since 1922 has been one of the ten countries of chief industrial importance and as such has been allotted a permanent seat on the Governing Body of the Organization. India also contributes liberally towards the finances of the Organisation. For 1968 India's contribution amounts to U.S. \$7,12,795 which is 2.87 per cent of the total contribution of all member States, as against U.S. \$6,53,047 for 1968 which is 25 per cent of the total contribution of all member States. India's share in the appointments of the office is, however, somewhat inadequate.

India has been the venue of two Asian Regional Conferences, the first in 1947 and the fourth in 1957.

India has been receiving technical assistance from the I.L.O. in the spheres of manpower, vocational training, Rural Employment Promotion, Productivity, and so on and experts from India have been recruited by the I.L.O. for assignments in other underdeveloped countries in such subjects as Cooperation, Cottage Industries and Employment Information.

Out of 128 Conventions adopted by the International Labour Conference, India has so far ratified 30 Conventions. She has in addition incorporated into her national

legislation the essential features of many other Conventions.

BONUS

The Rajya Sabha passed on February 26, 1969 the Payment of Bonus (Amendment) Bill, 1969, which seeks to replace an ordinance issued on January 10, 1969 in regard to the parent Act of 1965. The Bill has been passed to carry out the Governments' intention that the available surplus under section V of the Act should be so computed that the amount of tax rebate accruing to the employers on account of bonus paid or payable under the Act, becomes a part of the available surplus of the succeeding year instead of the same going entirely to the employer.

PROHIBITION

THE AICC under the chairmanship of Dr. Sushila Nayyar adopted the following resolution on prohibition on Nov. 5, 1968 :

(A) All Governments, and particularly Congress Governments, should continue to endeavour to bring about prohibition of the consumption of intoxicating drinks and the Working Committee should, in consultation with Congress Chief Ministers, draw up a programme so that the policy be implemented in a period of seven years beginning from October 2, 1969. (B) No Congressman shall speak against the policy of prohibition and (C) All Congressmen shall actively help in the effective implementation of the policy and programme of prohibition."

PROHIBITION IN STATES

Some facts and figures about prohibition in some of the States for which details are available are given below. Figures within brackets indicate the date of introduction of prohibition.

Andhra : Prohibition has been introduced in the Andhra region comprising eleven districts namely Chittoor (1938), Cuddapah (1938), Kurnool (1946), Guntur (1947), Nellore (1947), Srikakulam (1948), Visakhapatnam (1948), East Godavari (1948), West Godavari (1948), Krishna (1948) and Banganapalli of Kurnool District (1948).

Prohibition is not being enforced in the Telangana area of the State.

Assam : The entire Kamrup District was declared dry from January 26, 1956.

The entire Nowgong District was declared dry from April 1, 1960 and the entire Goalpara District from April 1, 1962.

Four more districts in the Plains region and all the four autonomous hill districts are yet to be covered by prohibition.

The budget allotment for enforcing prohibition was Rs. 3,01,930 for the year 1966-67 and Rs. 2,97,870 for the year 1967-68.

Total prohibition of opium, *ganja* and *bang* is in force throughout the State now.

Delhi : Is wedded to the policy of introducing prohibition gradually. The following steps have been taken towards prohibition from time to time.

(1) There are now only three country liquor shops as against seven before; (2) Alcoholic strength of country liquor is being maintained at 50 degrees under proof;

(3) Increase in the number of dry days to 137, which is the highest number as compared to other States. The licensed vends remain closed on these days and sale of intoxicants is prohibited; (4) Increase in the rates of duty, licence fee and assessment fee; (5) Prohibition of import of country liquor in any quantity within the radius of five miles inside Delhi; (6) Prohibition of import (without permit) of I.M.F.L. in a quantity exceeding one bottle, in Delhi; (7) Enhancement of the punishment under the penal provisions of the Excise Act and also prescribing a minimum sentence of imprisonment for offence of illicit distillation; (8) Regulating the import/export/transport/possession and sale of spirituous preparations under a licence/permit and pass; (9) A special 'Police Squad' has been provided to the department for prevention of excise crime and enforcement of prohibition measures.

The budget allotment for enforcing these measures and other expenses for the year 1968-69 was Rs. 3,23,000.

Gujarat : There is total prohibition throughout the State. Neera and palmgur centres with their allied industries have been started in several parts of the State so as to popularise neera as a nutritious drink and utilize the trees and the former tappers for productive and constructive purposes.

Tourist permits for consumption of foreign liquor are issued on presentation of tourist card. Liquor shops operate for such permit holders in selected cities like Ahmedabad, Surat, Rajkot and Baroda.

Kerala : There is no prohibition in Kerala.

Madhya Pradesh : With effect from July, 1967, prohibition has been scrapped from all the districts of Madhya Pradesh except the district of Vidisha.

Tamil Nadu : was the first State to introduce prohibition in the whole country.

Prohibition is in force throughout the State.

Maharashtra : Prohibition is in force in the whole state with some modifications.

The enforcement of prohibition is entrusted to the Police Force. There is no separate budget allotment for the enforcement of prohibition.

Procedure for the grant of liquor permit has been liberalised. Any person above 30 years of age is eligible to get a permit on obtaining a certificate to this effect from the applicant's medical adviser. The maximum quota of liquor admissible against a permit is four units for those above 40 years of age and three units for those between 30-40 years.

The sale of liquor in Greater Bombay has increased from 9,10,240½ units in 1964-65 to 11,22,989 units in 1966-67. To eliminate the widespread evil of illicit distillation and bootlegging, free sale of toddy and beer with an alcoholic content of 5 per cent has been introduced to those who are above 21 years of age.

Mysore : Prohibition was lifted in most parts of Mysore in 1967-68. The only dry areas are Jhamkhandi, Ankola, Chamarajnagar and Yelandur.

Excise revenue expected in 1968-69 : Rs. 11 crores.

Orissa : There is no prohibition in the State.

Rajasthan : From 1956, drinks in hotels, restaurants, clubs, cinemas, bars, messes have been stopped. A few specified hotels serving foreign visitors and tourists have been allowed to serve foreign liquor to such persons in special rooms.

Following days are observed as dry days in the year : Republic Day ; Harijan Day ; Independence Day ; Mahavir Jayanti ; Budh Purnima ; Guru Nanak birthday ; Birthday of Prophet Mohammad ; Krishna Janmashtami ; Mahatma Gandhi's birthday. The State Government has also decided to close liquor shops in labour areas on pay days.

The printing and publication of advertisements soliciting the use of intoxicating liquors has been prohibited.

The Abu area is dry.

The State Government declared a twenty-five kilometer belt on Gujarat border as dry area from October 2, 1967. From 1st April, 1968 the border Districts of Durgapur, Banswara and Sirohi and Zadol, Kherwara and Kotra Tehsils of Udaipur district have been declared dry.

The State Government has decided to introduce complete prohibition in the State in 1972.

ROADS

IT is estimated that India in 1914 had 273,000 Km. of roads. Against this, the length in April 1967 was 928,200 Km. made up of 289,500 Km. of metalled roads and 638,700 Km. of unmetalled roads. Included in this, however, are roads constructed in Community Development and N.E.S. Blocks, amounting to about 370,000 Km. which are generally mere tracks and are often not properly maintained.

On the administrative side roads may be divided into two main classes. State Roads under the Public Works Department and Local Roads in charge of local bodies.

1st, 2nd & 3rd FIVE YEAR PLANS

The progress of road development during the past three Plan periods and during 1967 has been as follows. (Figures are in kilometres, the first indicating surfaced, second unsurfaced and third total): First Plan (183,023 ; 315,321 ; 498,344) ; Second Plan (235,790 ; 473,330 ; 709,120) ; Third Plan (280,586 ; 611,136 ; 891,722) ; 1967 (Estimated) (289,000 ; 638,700 ; 928,200).

The financial allocations for road development from the beginning of the First Five Year Plan have totalled a sum of Rs. 1,134.86 crores, distributed as under (in Rs. crores) : First Plan 134.47 ; Second Plan 245.80 ; Third Plan 451.12 ; 1966-67 111.53 ; 1967-68 100.88 ; 1968-69 91.06 ; Total 1,134.86.

For 1968-69 a total outlay of Rs. 90.81 crores has been agreed to as under (Rs. crores) : Central Sector : 34.50 ; States : 45.68 ; Union Territories : 10.63.

NATIONAL HIGHWAYS *

National Highways include the following roads:—
1. The Grand Trunk Road from Calcutta to Amritsar *via* Banaras, Kanpur, Agra and Delhi ; 2. The Agra-Bombay Road ; 3. The Bombay-Bangalore-Madras Road ; 4. The Madras-Calcutta Road ; 5. The Calcutta-Nagpur-Bombay Road ; 6. The Banaras-Nagpur-Hyderabad-Bangalore-Cape Comorin Road ; 7. The Delhi-Ahmedabad-Bombay Road ; 8. The Road from Ahmedabad to Kandla with a branch Road to Porbandar ; 9. The Hindustan-Tibet Road from Ambala to Tibet border *via* Simla ; 10. The Delhi-

Lucknow-Gorakhpur-Muzzafarpur Road with a branch Road to Nepal border ; 11. The Assam Access Road ; 12. The Assam Trunk Road on the South Bank of the Brahmaputra ; 13. The Road branching off from the Assam Trunk Road towards the Burma border through the State of Manipur.

In 1961 three additional roads were classed as National Highways. They are Jabalpur-Bhopal-Biaro Road, Agra-Jaipur-Bikaner Road and Sholapur-Chitradurg Road. Consequently the length of the National Highway system has now increased to 14,880 miles.

In April 1968 there were still 402 Km. of missing links on this road system. Seventeen major bridges are still to be built and 513 Km. of low grade surfaces need to be upgraded.

Some of the important works completed on national highways so far are the Barakar and Poon bridges and the rail-road bridge over the Ganga near Mokameh in Bihar, the Kathjuri and Kuakhai bridges in Orissa, Mahi bridge in Bombay, Pennar and Champavati bridges in Andhra Pradesh, Pugalur and Palar bridges in Tamil Nadu, Beyne and Ghagger bridges in the Punjab,* Gheesh and Leesh bridges in West Bengal, Bygool, Bhakra and Betwa bridges in U.P., the Chambal bridge near Dholpur in Madhya Pradesh and the bridge over the Ganga at Gurhmukteshwar in U.P.

Among the important projects in progress are the construction of the "Pipra-Kasia link road and the bridge over the Gandak at Dumariaghat on National Highway No. 28, the strengthening of the existing crust and the widening of the Govindpur-Chas section of National Highway No. 32 in Bihar, the construction of the Yamuna bridge behind the Humayun's tomb in Delhi, Neendkara bridge on N. H. No. 47 in Kerala, Thana Creek bridge on N. H. No. 8 in Maharashtra, Tungabhadra bridge at Hospet on N. H. No. 13 in the State of Mysore, bridges over the Beas and Sutlej on National Highway No. 1 and the Beas near Mirthal on National Highway No. 1A in Punjab and bridges over the Yamuna at Agra, the Ganga at Allahabad (N.H. No. 2) and the Ghagra at Dobrighat (N. H. No. 29) in Uttar Pradesh.

* A sum of Rs. 2.7 crores was made available by the Ministry of Transport & Shipping for repair and restoration work on the National Highways which had suffered heavy damages, estimated over Rs. 4 crores, during flood, 1968-69. † Composite State.

The west coast road, though under construction mainly at the cost of the Central Government, has not yet been declared a National Highway. Passing through the States of Maharashtra, Mysore, Goa and Kerala this 763 mile road from Panvel in Maharashtra to Chalissery in Kerala is expected to be completed by March 1971 at a cost of Rs. 23.15 crores. The Sections now remaining to be completed are a 9 mile stretch from Karwar to Goa border including a bridge over Kalinadi and other small stretches aggregating 17 miles, besides a few by-passes.

The actual National Highway lengths (in Km.) in the various States in 1966 were as follows :—

Andhra 2,169, Assam 1,400, Bihar 1,792, Gujarat 1,034, Kerala 406, M.P. 2,585, Maharashtra 2,393, Mysore 1,205, Nagaland 102, Orissa 1,371, Punjab 1,342, Rajasthan 1,255, Tamil Nadu 1,656, U.P. 2,461, W. Bengal 1,311, Delhi 79, H.P. 34, Manipur 211 and border areas including Jammu & Kashmir 902. Total length excluding missing links 23,708 Km.

EXPRESS HIGHWAYS

Five express highways designed for fast motor traffic form part of the current road schemes. Two of these are at the northern outskirts of Bombay City known as the Western and Eastern Express Highways. The third one joins Calcutta to the Dum Dum Airport. Work on the remaining two express highways, roughly 100 miles each, and connecting Calcutta to Durgapur in West Bengal and Sukinda mines to Paradip port in Orissa, is in progress.

NEW ROAD PLAN

This plan has been prepared for execution during the 20-year period from 1961 to 1981.

The broad outline of the plan is to raise the mileage of roads from 4.10 lakhs in 1961 to 6.57 lakhs by 1981 with provision for two lane carriage-ways on National Highways. The Plan aims at increasing the intensity of roads from 0.32 to 0.52 per square mile of territory. When the plan is completed the average distance from a village in an agricultural area to a metalled road will be reduced from five to three miles and the distance to an unmetalled road will be reduced from two to 1½ miles.

There is also a provision to have 1,000 miles of Expressways with limited access and also grade separation at most of the crossings.

The cost of this scheme is estimated at Rs. 5,200 crores which, it is recommended, should be split up between four 5-year periods as under :—

1961-62 to 1965-66 : Rs. 590 crores ; 1966-67 to 1970-71 : Rs. 1,075 crores ; 1971-72 to 1975-76 : Rs. 1,545 crores ; 1976-77 to 1980-81 : Rs. 2,000 crores.

Statement showing how the allotments in the scheme are made—for Highways, District Roads and Village Roads. The first figure indicates the targets proposed in the Plan in miles and the second the cost in Rs. crores (improvement and new construction) : National Highways 32,000 ; 980 ; State Highways 70,000 ; 1,580 ; Major District Roads 1,50,000 ; 1,360 ; Other District Roads 1,80,000 ; 650 ; Village Roads (Classified) 2,25,000 ; 630 ; Total 6,57,000 ; 5,200.

INTERNATIONAL HIGHWAYS

A major development which took shape during the Third Plan period is the linking up of our national highways with the international highways as proposed by the ECAC.

These highways are divided into two categories, the first consisting of main arterial routes joining the capitals of the countries and the second consisting of other routes joining main cities, ports etc. with the arterial network. Constituting a part of the main international system by linking India with Lahore in Pakistan and Mandalay in Burma the main arterial highway through India is the Amritsar-Delhi-Agra-Calcutta-Golaghat-Imphal road. Next in importance are two routes, Agra via Gwalior, Hyderabad and Bangalore to Danushkodi and Barhi to Kathmandu. Highways of the second category in India will include roads such as Agra-Bombay, Delhi-Multan, Bangalore-Madras, Golaghat-Ledo etc.

BORDER ROADS

A "Border Roads Development Board" was formed in March 1960 to accelerate the economic development of the North and North Eastern border areas. Its programme includes improvement of certain existing roads and tracks and construction of new ones. While all road agencies like the State P.W.D. and the Central P.W.D. cooperate with the Board, work is being carried out directly by the Board in the most forward areas and especially at high altitudes and in difficult terrain. The Board has taken over overall responsibility for the maintenance and improvement of the Pathankot-Jammu-Srinagar-Uri National Highway.

World's Highest Road : The world's highest road from Manali to Leh has been completed by the Border Roads Organisation 15 months ahead of schedule. The average altitude of the terrain is 14,000 feet. The road negotiates four very high passes varying from 16,000 to 18,000 feet. It has reduced substantially the distance between Chandigarh and Ladakh.

LENGTH* OF ROADS IN INDIA (as on 31-3-1966) (In Kilometres)

State/Union Territory	Surfaced roads	Unsurfaced roads	Total
(1)	(2)	(3)	(4)
Andhra Pradesh	27,892	44,731	72,623
Assam	5,135	34,880	40,015
Bihar	13,237	38,723	51,960
Gujarat	14,099	18,064	32,163
Jammu & Kashmir	2,663	10,214	12,877
Kerala	10,357	37,540	47,897
Madhya Pradesh	25,396	38,267	63,663
Maharashtra ..	28,227	50,131	78,358
Mysore	32,986	46,889	79,875
Nagaland	225	3,583	3,808
Orissa	8,998	38,904	47,902
Punjab	11,776	40,368	52,144
Rajasthan	17,292	27,593	44,885
Tamil Nadu ..	38,807	29,768	68,575
Uttar Pradesh ..	23,462	97,959	1,21,421
West Bengal ..	15,306	32,239	47,545
Union Territories**	4,728	21,283	26,011
Total { Kilometres ..	2,80,586	6,11,136	8,91,722
{ Miles	1,74,348	3,79,741	5,54,089

REVENUE FROM MOTOR TRANSPORT

In 1966-67 the expenditure on roads is estimated at Rs. 156.35 crores, made up of Rs. 101 crores on road construction or improvements and Rs. 55.35 crores on road maintenance. The Governments at the Centre and

* Extra—Municipal Roads only.

** Includes 328 kilometers of road length in Sikkim.

in the States realised in the year an amount of Rs. 431.45 crores from motor transport, as under :—

	Revenue, 1966-67 (Rs. in Crores)
Central Revenues.	
Motor Spirit and Diesel Oil Duties	286.34
Tyre Excise and Import Duties	
Vehicle Parts Imports Duties	
State Revenue.	
Vehicle Taxes and Petrol Sales Taxes,	145.11
Passenger and Goods Taxes, etc.	
	431.45

MOTOR VEHICLES

The number of motor vehicles in use in India in March 1967 was 11.23 lakhs. In terms of the population of the country, this represents about 204 vehicles per lakh of inhabitants.

The distribution of vehicles among the various States are shown in a table under "Motor Vehicles in India" in *Automobile Industry*. The growth of motor vehicles in India in the past ten years is about 151 per cent the total number having increased from 4.47 lakhs in March 1957 to 11.23 lakhs in March 1967.

NATIONALISED TRANSPORT

Nationalised bus services covered in 1969 almost the major parts of Gujarat, Maharashtra, Orissa, Delhi, Manipur and Himachal Pradesh.

No nationalisation has taken place in Tripura, Goa and Pondicherry; but in the remaining parts of the country the extent to which services have been nationalised varies from one State to another, some having started only experimental nationalisation as in Rajasthan while in some others such as Punjab and U.P., roughly half of the passenger buses are owned by the nationalised sector. Mysore has 30 per cent of buses under State ownership and Andhra Pradesh 36 per cent. In the rest of the country comprising Assam, West Bengal, Tamil Nadu, M.P. and

Kerala, State-owned buses vary from 15 to 27 per cent. In the country as a whole nationalised buses accounted for 36 per cent of passenger services in 1967.

Freight transport is operated by certain State Transport organisations such as those in Assam, Maharashtra, Uttar Pradesh, Jammu & Kashmir and Himachal Pradesh. While these freight lorries as a rule operate on charter basis or on scheduled parcel services without monopoly, the State Transport in Assam has a monopoly of the truck traffic on 68 miles of roads and the goods traffic in Himachal Pradesh is a virtual State monopoly. The number of goods lorries operated by nationalised concerns is however not more than one per cent of the total goods vehicles in India.

TRANSPORT BODIES

The Roads Wing under the Ministry of Transport gives technical advice and arranges for the allocation of Central Road Fund reserves among the States.

There is an inter-State Transport Commission to develop, co-ordinate and regulate operation of motor vehicles in areas or routes common to two or more States.

There is a *Transport Development Council*, consisting principally of Ministers and officials.

Enquiry Committees

In 1965 the Government of India appointed three enquiry committees. One known as the Study Group on viable units recommended in 1968 that various forms of encouragement should be afforded by Government to induce transport operators to combine into bigger units so as to be able to provide more efficient services and effect economies in costs. The second Road Transport Taxation Enquiry Committee has found that the incidence of present taxation constitutes disincentive to the growth of road transport. In its report submitted at the end of November 1967, it has recommended that the prevailing taxes which are high should be reduced. The third Committee dealing with the financing of the road transport industry, also made several recommendations in 1968 such as the inclusion of road transport industry in the list of priority industries, restoration of the development rebate originally granted to it and the grant of a further rebate of 8 per cent from income tax to ensure that the development of road transport matches the future needs of the economy.

INSTITUTIONS FOR THE BLIND IN INDIA

Andhra Pradesh : Government School for the Blind, Cuddapah; Lutheran School for the Blind, Guntur District; Government School for the Blind, Malakpet, Hyderabad; Disabled Children's School for the Blind, Amravati Road, Guntur; School for the Blind, Kottagudan; National Association for the Blind, Andhra Pradesh Branch; Andhra's Blind Model School, Rest House Road, Bhimavaram, West Guntur District; Indian Conference of Social Work Building, Red Hills, Hyderabad; National Association for the Blind (Andhra Pradesh Branch), Red Hills, Hyderabad.

Assam : Blind School attached to the Sreemantha Shankar Mission, P. O. Nowgong, New Gond District.

Bihar : Home for the Homeless, Muzaffarpur; Maharani Adhirani Kameshwari Priya Andh Vidyalaya, Darbhanga; Netraheen Chhatra Vidyalaya, Mundichak, Bhagalpur; S.P.G. Mission Blind School, Ranchi; Patna Blind School,

P. O. Kadam Kuan, Patna; Blind Relief Society, Dhanbad; Netrabihin Kalyan Sangh and Nissahaya Balak Grih, Dayalniwas, Sinha Library Road, Patna; St. Michael's School for the Blind, Ranchi.

Delhi : Blind Relief Association, Room No. 37, Theatre Communications Building, Connaught Circus, New Delhi; Blind Social Welfare Society, 96, Panchkuin Road, New Delhi; Institution for the Blind, Panchkuin Road, New Delhi; Rashtriya Virja Nand Andh Kanya Vidyalaya, New Rajinder Nagar, Shankar Road, New Delhi; National Society for the Prevention of Blindness, C/o. Dr. L. P. Agarwal, All India Institute of Medical Sciences, Ansari Nagar, Delhi 6; Delhi Public Library Braille Section, New Delhi-5.

Gujarat : Andh Kanya Prakash Grih (Light House for Blind Girls), Narayanapura, Ellis Bridge, Ahmedabad; Andh Mahila Vikas Grih, Gondal Road, Near Swami

Narayan Gurukul, Rajkot; Blindmen's Association, Maganbha Kendra, Kameswari Poll, Ahmedabad; Krishnakumarsinhji School & Home for the Blind, Bhavnagar, Kathiawar; School for the Blind, Ellis Bridge, Ahmedabad; Ambaben Maganlal Andhyan Shala, Surat; Govt. Blind School, Baroda; School for the Blind, Visavadar, Saurashtra; The Tata Agricultural & Rural Training Centre for the Blind, Phansa; Government School for Deaf, Mutes and Blind, Maliya Bhavan, Rajkot; The Kalpana Nursery School and Home for Deaf, Dumb and Blind Children, C/o. School for Deaf Mutes and the Blind, Navrangpura, Ahmedabad; Andh Abhyudaya Mandal, Bhavnagar; Adult Training Centre for the Blind, Navrangpura, Ahmedabad; A.M. Andhjanshala, Race Course, Athwa Lines, Surat; The Baroda Association for the Blind, Mahajan Lane Raopura, Baroda; Baroda Association for the Blind, Baroda; Dohad Andh Jan's Vidyalaya, Dohad; Meghji Pethraj Blind School, Junagadh; Blind Men's Association, (Gujarat State Branch), C/o Adult Training Centre for the Blind, Behind University Professors' Quarters, University Campus, Navrangpura, Ahmedabad 9; Shikshan Samiti, Bodehdy, P. O. Kinwat, Nadiad District; Gujarat Rajya Nayanjot Raksha Samiti, Ahmedabad; Shri Andh Sarvodaya Mandal, Gondal Road, Near Swaminarayan Gurukul, Rajkot; M. T. Joshi Andh Vidyalaya, Surendranagar; Maghji Petraj Blind School, Junagadh; Shri Bharatiya Pragna Chakshu Gurukul, Porbunder.

Haryana: Blind Relief School, Hissar; Govt. Institute for the Blind, Panipat; S. D. Institute for the Blind, Ambala Cantt; Training Centre for the Adult Blind, Sonapat; Home for the Blind, Hissar.

Jammu & Kashmir: Residential School for the Blind, Ved Mandir, Jammu; Shri Abedananda Home for the Blind, Srinagar, Kashmir.

Kerala: Kerala Blind Welfare Association, Mankadapallipuram, Malappuram; School for the Blind, Kunnamkulam, Talapally, Trichur Dt.; School for the Blind, Deaf & Dumb, Trivandrum; Rotary School for the Blind, Alwaye; School for the Blind, Olessa, Kottayam; National Association for the Blind (Kerala State Branch), C/o Government Ophthalmic Hospital, Trivandrum 1.

Madhya Pradesh: Madhya Pradesh Welfare Association for the Blind, 83, Bozanket Market, Pandey's Building, Indore; Shri Madhav Andh Ashram, Nai Sarak, Laskar, Gwalior; School for the Blind attached to the Christian Hospital & Dispensaries, Mungeli, Bilaspur Dt.; Deaf, Dumb & Blind Vidyalaya, Indore; Government Blind and Deaf School, Bhopal; Child Guidance Clinic & Handicapped Children's Colony, 102, Cherital, Jabalpur.

Maharashtra: Andh Pragati Mandal, 52, B. D. D. Chawl, Worli, Bombay-18; Blind Welfare Association, Housing Colony, Amravati-2; Blind Boy's Insitute, Ajini Ambajari Road, Nagpur; Blind Men's Association, 177/179, Lamington Cross Road, Bombay-7; Blind Relief Association, Congress Bhuvan, Bassein, Thana District; Blind Relief Association, 475-83, Kalbadevi Road, Bombay-2; Dadar School for the Blind, 160, Dadasaheb Phalke Road, Dadar, Bombay-14; Government School for the Blind, Nasik; Haji Allarakha Sonawala Andh & Anath Stree Ashram, 37, Gilbert Hill, Versova Road, Andheri, Bombay-58; Happy Home & School for the Blind, 52, B. D. D. Chawls, Worli, Bombay-18; Industrial Home for Blind Women, 160 Dadasaheb Phalke Road, Dadar, Bombay-14; Kishanlal Jalan Charity Trust, 339-41, Kalbadevi Road, Bombay-2; M. N. Banajee Industrial Home for the Blind, 280, Swami Vivekananda

Road, Jogeshwari, Bombay-60; National Christian Council, Nagpur, Maharashtra; N.S.D. Industrial Home for the Blind, 52, B.D.D. Chawl, Worli, Bombay-18; Poona School & Home for the Blind, Koregaon Park, Poona; Poona Blind Men's Association, 82, Rasta Peth, Poona; Sanjiwani Arogya Sahakari Sanstha Ltd., Virar, Thana Dist.; Rambai Mukti Mission, Kedgaon, Poona District; Victoria Memorial School for the Blind, 73, Tardeo Road, Bombay 7; The Workshop for the Blind, Dr. Annie Besant Road, Worli, Bombay-18; Blind Home, Chembur, Bombay-71; Government School for the Blind, Bhandara; Industrial Institute for the Blind, Deaf & Dumb, Near Tata Parsi Girls' High School, Nagpur, School for the Blind, Deopur, Dhulia; National Association of the Instructors of the Blind, 22, Jal Bungalow, Arab Lane Corner, Grant Road, Bombay 8; School for the Blind, Bodadi, District Nanded.

Mysore: Government School for Deaf and Blind Boys, Mysore; Blind Relief Association, Bijapur; Government School for the Blind, Hubli, Dharwar District; School for the Blind, Mysore; Vocational Institute for Women at Mysore City with a Section for Blind Girls, Mysore; Divine Light School for the Blind, White Field, Bangalore; Government School for the Blind, Kasargod, South Kanara District.

Orissa: Orissa State Council for Child Welfare, Raj Bhuvan, Bhubaneswar.

Punjab: Andh Vidyalaya, Amritsar; Bharatiya Andh Hitakarini Sabha, 2212-13, Gurudwara Building, Inside Lohgarh Gate, Amritsar; District Council for the Welfare of the Handicapped, Home for the Blind, Tulsiram Ashram, Ferozepore; Institute for the Blind, Soorma Singh Ashram, Amritsar; Central Khalsa Orphanage and Surma Singh Ashram, G. T. Road, Punjab.

Rajasthan: Government School for the Blind, Adarshnagar, Ajmer; Seth Anandilal Poddar Institute for the Deaf, Dumb & Blind, Jaipur; Education Department, Government of Rajasthan, Bikaner; School for the Blind, Bikaner.

Tamil Nadu: Society for Aiding the Handicapped, 52 Balaja Singh St., Saidapet, Madras; Blind Relief Association, 17, Gang Shala, Pondicherry; Blind Relief Association, 48, Thennamaram Street, Vellore; Government School for the Blind, Poonamalle; Government School for the Blind, Shivpet, Salem; Madras Christian College (Students Service for the Blind), Tambaram, Chingleput Dt.; School for the Blind & Deaf, Cathedral Post, Madras 6; School for the Blind, Palayamkottai, Tirunelveli 2; School for the Blind, Swedish Mission Hospital, Tirupattur, Ramanathapuram Dt.; School for the Blind, Sir T. Desikachariar Building, Puttur, Tiruchirapalli; Rehabilitation Home for the Blind, Rajaji T. B. Sanatorium Compound, Tiruchirapalli; TELC Home & School for the Blind, Moses Gnanambaram Eye Hospital, Coimbatore-1; National Academy of Teachers of the Blind, C/o School for the Blind, Palayamkottai, Tirunelveli 2; Pilot Demonstration Rehabilitation Centre for the Blind, Madras Medical College, Madras-13; National Association for the Blind, (Tamil Nadu Branch), 27/1-Ak Mount Road, Saidapeth, Madras 15; St. Louis Institute for the Deaf and Blind, Madras 20.

Uttar Pradesh: Indumati Andh Shishu Sharanalaya, P. O. Tehri, Dist. Tehri-Garhwal; Ahmedi School for the Blind, Civil Lines, Aligarh; Central Braille Press, Rajpur Road, Dehra Dun; Kashi Seva Samiti, Varanasi; Model

School for Blind Children, Rajpur Road, Dehra Dun; School for the Blind (Andh Vidyalaya), 110/26, Nehru Nagar, Kanpur; School for the Blind attached to the Eye Hospital, Sitapur; Sharp Memorial School for the Blind, Rajpur Road, Dehra Dun; Training Centre for Adult Blind, Rajpur Road, Dehra Dun; Kunwarlal Singh Industrial School for the Blind, Kutcheri Road, Manipuri; Government School for the Blind, Lucknow; Allahabad School & Home for the Blind, P. O. Naini, Allahabad; Madrasa Nabeena, Nageena, Bijnor; Government School, Gorakhpur; Blind Association, 9-C, Civil Lines, Gorakhpur; Blind School, Bhadaini, Varanasi.

West Bengal: Blind Boys' Academy, Ramakrishna Mission Ashram, P. O. Narendrapur, Dist. 24 Parganas; Blind Persons' Association, 174, Shyam Prasad Mookerjee Road, Calcutta 26; Kalimpong Home for the Blind, Kalimpong, Darjeeling District; Mary Scott Home for the Blind, Kalimpong, Darjeeling Dist.; Light House for the Blind, 174, Shyam Prasad Mookerjee Road, Calcutta 26; Ramkrishna Mission Ashram, P. O. Narendrapur, Dist. 24 Parganas; Calcutta Blind School, P. O. Behala, Calcutta-23; Association for the Prevention of Blindness, 94, Chittaranjan Avenue, Calcutta; The National Association for the Blind, 18, Netaji Subash Road, Calcutta-1.

AWARDS AND PRIZES

INCLUDING the 1969 awards, the number of persons who have received Bharat Ratna is 14, Padma Vibhushan 44, Padma Bhushan 288 and Padma Shri 390.

The highest award Bharat Ratna is given for exceptional work for the advancement of art, literature and science and in recognition of public service of the highest order.

The 14 persons who have received Bharat Ratna are: Mr. Jawaharlal Nehru (1954), Mr. C. Rajagopalachari (1954), Dr. S. Radhakrishnan (1954), Dr. C. V. Raman (1954), Dr. Bhagwan Das (1955), Mr. M. Visvesvaraya (1955), Pandit Govind Ballabh Pant (1957), Dr. D. K. Karve (1958), Dr. B. C. Roy (1961), Mr. Purushottam Das Tandon (1961), Dr. Rajendra Prasad (1962), Dr. Zakir Hussain (1963), Dr. P. V. Kane (1963) and Mr. Lal Bahadur Shastri (Posthumously) 1966. For the third year in succession no Bharat Ratna award has been conferred.

1969 R-DAY AWARDS

The five persons who have been awarded Padma Vibhushan are:

Dattatraya Shridhar Joshi, formerly Cabinet Secretary, Government of India; Ghananand Pande, formerly chairman, Railway Board, Government of India; Dr. Har Gobind Khorana, professor of life sciences, Institution of Enzyme Research, University of Wisconsin (USA); Dr. Mohan Sinha Mehta, educationist, Udaipur, Rajasthan; Rajeshwar Dayal, formerly Foreign Secretary, Government of India.

The 29 recipients of Padma Bhushan are:

Dr. Adinath Lahiri, director, Central Fuel Research Institute, Dhanbad, Bihar; Gobind Behari Lal, journalist, San Francisco, U.S.A.; Prof. Haroon Khan Sherwani, educationist, Hyderabad; Kasturbhai Lalbhai, industrialist, Ahmedabad, Gujarat; Kasturiswami Sreenivasan, textile technologist, Coimbatore, Tamil Nadu; Kesarbai Kerkar, musician, Poona; Keshav Prasad Goenka, industrialist, Calcutta, West Bengal; Dr. Keshavrao Krishnarao Datey, physician, Bombay.

Krishan Chander, writer, Bombay; Krishna Ramchand Kripalani, secretary, Sahitya Akademi, New Delhi; Smt. Lata Dinanath Mangeshkar, musician, Bombay, Prof. Mohanlal Lalloobhai Dantwala, economist, Bombay; Dr. Narayan Bhikaji Parulekar, Editor-in-chief, daily "Sakal," Poona; Naval Hormusji Tata, industrialist, Bombay; Dr. Nihar Ranjan Ray, Director, Indian Institute of Advanced Studies, Simla; Dr. Prafulla Kumar Sen, surgeon, Bombay; Prithvi Raj Kapoor, actor, Bombay; Rahim-ud-din Khan Dagar, musician, New Delhi; Raja Rao, writer, Texas, U.S.A.

Raman Madhavan Nair, Editor, "The Tribune", Ambala Cantt., Haryana; Samad Yar Khan "Saghar Nizami," Urdu poet, New Delhi; Semmangudi Srinivasa Iyengar, musician, Madras, Tamil Nadu; Subramaniam Sreenivasan Vasan, film producer, Madras, Tamil Nadu; Dr. Tarasankar Bandopadhyaya, Bengali novelist, Calcutta, West Bengal; Dr. Vallabhadras Vithaldas Shah, physician, Bombay; Dr. Vatakke Kurupath Narayana Menon, Musicologist, Bombay; Vithalbhair, film producer, Bombay; Vitthal Laxman Phadke alias Mamasahab Phadke, social worker, Ahmedabad; Yeshwant Dinkar Pendharkar, poet, Poona.

The fourth national honour Padma Shri has been awarded to 55 persons. They are:

Dr. Amrik Singh Cheema, Agriculture Commissioner to the Government of India; Mrs. Amrita Pritam, poetess, New Delhi; Dr. Kaviraj Ashutosh Majumdar, Ayurvedic physician, New Delhi; Balraj Sahni, film actor, Bombay.

Dr. Bal Krishan Anand, professor, physiology and vice-dean, All-India Institute of Medical Sciences, New Delhi; Col. Bishan Lal Raina, Director, Central Family Planning Institute, New Delhi; Brahm Nath Datta 'Qasir,' Urdu writer and poet, Amritsar, Punjab; Mrs. Byrappa Saroja Devi, film actress, Madras, Tamil Nadu; Chandrakant Gulabrao Borde, cricketer, Poona; David Abraham, film actor, Bombay; Dhyan Pal Singh, Vice-chancellor, Agricultural University, Pantnagar, Uttar Pradesh; Gajanan Digambar Madgulkar, poet and playwright, Poona.

Kambali Shaikabdulkhader Gulammohideen Rowther Haja Shareef, industrialist, Madras; Khwaja Ahmad Abbas, film producer, Bombay; Dr. Krishna Gopal Saxena, homeopath, New Delhi; Kumar Nandan Prasad, Ministry of Home Affairs, Government of India; Mrs. Lila Indrasen, social worker, Pondicherry; Mahendra Nath Kapur, Principal, Modern School, New Delhi; Mangru Ganu Uikey, Social worker, Nainpur (Mandla), Madhya Pradesh.

Dr. Nand Kishore Verma, surgeon, Gangtok, Sikkim; Prof. Narayan Sridhar Bendre, painter, Baroda, Gujarat; Dr. Nautam Bhagwanlal Bhatt, director, Solid State Physics Laboratory, Delhi; Nedurumalli Balakrishna Reddy, social worker, Vakada (Nellore), Andhra Pradesh; Dr. Pandurang Rajaram Ghogrey, social worker, Dhulia, Maharashtra; Pandurang Vasudeo Gadgil, writer, Bombay.

Mrs. Rajam Ramaswami, social worker, Madras; Dr. Ram Kumar Caroli, physician, Willingdon Hospital, New Delhi; Ram Lal Raigarhia, industrialist, Calcutta,

West Bengal; Dr. Ramakrishna Ananthakrishnan, Director, Institute of Tropical Meteorology, Poona; Dr. Revanasiddappagouda Basappagouda Patil, surgeon, Hubli, Mysore; Mrs. Roshan Phookan, social worker, Gauhati, Assam; Sachin Dev Burman, music director, Bombay.

Sadashiva Rath Sharma, Research Scholar, Puri, Orissa; Mrs. Savitri Sahni, educationist, Lucknow, Uttar Pradesh; Shyam Lal Gupta philanthropist, Delhi; Singannachar Narasima Swamy, artist, Mysore; Sri Chand Chhabra, president, New Delhi Municipal Committee; Srinivasa Natarajan, educationist, Madras, Tamil Nadu.

Subodh Chandra Dev, deputy commissioner, Momokchung, Nagaland; Sudhir Krishna Mukherü, Secretary, Border Roads Development Board, Government of India; Sukhdev, producer of documentary films, Bombay; Surendra Nath Ghosh, Editor, "Pioneer," Lucknow, Uttar Pradesh; Dr. Tarapada Basu, journalist, London, U.K.

Dr. Tarahundur Venkatarama Mahalingam, historian and archaeologist, Madras, Tamil Nadu; Thiagarajan Muthian, Director, Technical Education, Madras, Tamil Nadu; Prof. Tirukannapuram Varadachari Ramanujam, social worker, Bombay; Upendra Marathi, Director, Institute of Industrial Designs, Patna, Bihar; Vairamuthu Pillai Subbiah Pillai, Tamil writer, Madras; Vulimiri Ramalingaswami, Professor of Pathology, All-India Institute of Medical Sciences, New Delhi, and Yogeshwar Dayal, social worker, Delhi.

GALLANTRY AWARDS

Recipients of the nine *Param Vishisht Seva Medal* are: Lt.-Gen. Apparanda Chengappa Iyappa (Retd.), Lt.-Gen. Bidyapati Bhattachariya, Lt.-Gen. Gopal Gurnunath Bewoor, Lt.-Gen. Rajinder Singh Paintal, Maj.-Gen. Panavolil Thomas Joseph, AVSM, Maj.-Gen. Inderjit Singh Gill, MC, Rear Admiral Kesavapillai Ramakrishnan Nair, Air Vice Marshal Hari Chand Dewan and Air Vice Marshal Teja Singh Virk.

Four *Kirti Chakra* recipients are: Capt. Sreeram Raju Kosuri (Assam Rifles), Lance Naik Jitendra Biswas (ASC), Sepoy Gorakh Nath Singh (Bihar—Posthumous) and Pioneer Mool Singh (Pioneer Corps—Posthumous).

Other gallantry awards and the number of recipients under each category respectively are: *Ati Vishisht Seva Medal* 25; *Saurya Chakra* 3; *Sena Medal* 21; *Nao-Sena Medal* 1; *Vayu Sena Medal* 30; and *Vishisht Seva Medal* 52.

NATIONAL AWARDS (1967)

The following is the list of winners:—

Shram Vir Awards—(Based on outstanding suggestions made by workers): *Class A*: Cash prize of Rs. 2,000 each: C. A. Vasu, The Metal Box Co. of India Ltd., Bombay; Ashutosh Mazumdar, The Metal Box Co. of India Ltd., Calcutta.

Shram Vir Awards—*Class B*: Cash prize of Rs. 1,000 each: Pritish Kumar Das and Nitin Charan Ghosh, Hindustan Steel Ltd., Rourkela Steel Plant, Rourkela; B. K. Basu, TISCO, Jamshedpur; F. S. Mehta, TISCO, Jamshedpur; Harbhajan Singh, 509 Army Base Workshop, Agra; Tikam J. Bhojwani, Larsen and Toubro Ltd., Powai Works, Bombay; Abdul Razzaq Khan, Heavy Electricals (India) Ltd., Bhopal; Victor Francis Coutinho, The West Coast Paper Mills Ltd., Bangurnagar, Dandeli; M. Shivram and K. Gangadharan, Machine T., Bangalore; Shiv Dev Gupta, Hindustan Steel Ltd., Bhilai.

Shram Vir Awards—*Class C*: Cash prize of Rs. 500 each were given to 18 workers selected from different centres (both private and public undertakings).

National Safety Awards Scheme I: (Based on highest percentage reduction in frequency rate)—Cash prize of Rs. 2,500 and a cup to each: The Azam Jahi Mills Ltd., Warangal; T. V. Sundram Iyengar & Sons Pvt. Ltd., Madurai, 509-Army Base Workshop, Agra; Hindustan Steel Ltd., Bhilai Steel Plant, Bhilai; Hindustan Steel Ltd., Durgapur Steel Plant, Durgapur; Madras Cements Ltd., Tulukkapatti; Cable Corporation of India Ltd., Borivli East, Bombay; The Tata Iron & Steel Co. Ltd., Jamshedpur; The Associated Cement Cos. Ltd., Bhopendra Cement Works, Surajpur; The Ordnance Factory, Ambarnath (Maharashtra); Hindustan Aeronautics Ltd., Bangalore Division, Bangalore; The Saran Engineering Co. Ltd., Marhowrah (Bihar); Western Railway Carriage and Wagon Workshops, Lower Parel, Bombay; Fertilizer Corporation of India Ltd., Naya Nangal; Hindustan Steel Ltd., Rourkela Steel Plant, Rourkela.

Scheme II (Based on lowest frequency rate in industry): Cash prize of Rs. 2,500 and a running trophy each: Sri Ramakrishna Mills (Coimbatore) Ltd., Coimbatore; 'Terene' Works, Chemicals & Fibres of India Ltd., Ghansoli (Maharashtra); Bata Shoe Co. Pvt. Ltd., Faridabad (Haryana); Mining & Allied Machinery Corporation Ltd., Durgapur; 509 Army Base Workshop, Agra; Integral Coach Factory, Perambur, Madras; T. V. Sundram Iyengar & Sons Pvt. Ltd., Madurai; Metal & Steel Factory, Ishapore; The Tata Iron & Steel Co. Ltd., (Agrico Department), Jamshedpur; Foundry Forge, Heavy Engineering Corporation Ltd., Dhurwa, Ranchi; Madras Cements Ltd., Tulukkapatti (Madras).

Scheme III—(Based on longest accidents-free period): Cash prize of Rs. 2,500 and cups to Nos. 1, 2, 4, 5, 6, 7, & 9: (1) Shri Ramakrishna Mills (Coimbatore) Ltd., Coimbatore; (2) Indian Explosives Ltd., Gomia (Bihar); (3) Indian Oil Corporation Ltd., Gujarat Refinery, Baroda; (4) Mining & Allied Machinery Corporation Ltd., Durgapur; (5) 509-Army Base Workshop, Agra; (6) State Transport Central Workshop, Madras; (7) The Tata Iron & Steel Co. Ltd., Jamshedpur; (8) Ordnance Factory, Ambarnath, (Maharashtra); (9) The Associated Cement Cos. Ltd., Kymore Cement Works, Kymore (M.P.).

Sahitya Akademi Awards 1968

The award consists of a casket containing an inscribed copper plate and a cheque for Rs. 5,000.

The awards relate to books first published during the preceding three years — January 1, 1965, to December 31, 1967.

Language, title of the book and name of the author respectively are:

1. Assamese, *Alakananda* (Poetry), Smt. Nalinibala Devi;
2. Gujarati, *Avalokana* (Literary Reviews), Sundaram;
3. Hindi, *Do Chattanen* (Poetry), Dr. H. R. Bachchan;
4. Kannada, *Sannakathegalu* (Short Stories), Masti Venkatesh Iyengar;
5. Maithili, *Patrahin Nagna Gachh* (Poetry), Yatri (Nagarjun);
6. Marathi, *Yugant* (Interpretation of the Mahabharata), Smt. Irawati Karve;
7. Punjabi, *Naven Lok* (Short Stories), Kulwant Singh Virk;
8. Sanskrit (Pure), *Srigurugovindasimhacharitam* (Poetry), Dr. Satyavrata Shastri;
9. Sindhi, *Shah Jo Rasalo* (Evaluation), Prof. K. B. Advani;
10. Tamil, *Vellai Paravai* (Poetry), Prof. A. Srinivasa Raghavan.

Books for Neo-Literates: Under the prize scheme of books for neo-literates, about 40 prizes are awarded annually to the authors of selected books/manuscripts in the principal Indian languages.

Eighteen books have been selected for an award of Rs. 1,000 each under the XIII Prize Competition held in 1967. They include three books and one manuscript in Hindi, two manuscripts each in Assamese, Kannada and Urdu, one Manuscript each in Punjabi, Telugu and Tamil and one book each in Bengali, Kashmiri, Malayalam, Oriya and Tamil.

Hindi: 13 prizes of Rs. 1,000 each and 13 prizes of Rs. 500 each are proposed to be awarded every year to Hindi Writers and poets belonging to non-Hindi speaking for literary works under: 1. Fiction; 2. Drama; 3. Memoirs, Travelogues and Essays; 4. Poetry; & 5. Translation of books on these subjects from Regional languages into Hindi.

TEACHERS

The Government of India announced on September 5, 1967 the names of 99 teachers — 51 primary, 39 secondary and nine Sanskrit Pathshala teachers, who had been selected for the 1967-68 National Awards.

Each recipient of the Award receives a Certificate of Merit and Rs. 500 cash.

Since inception 807 teachers — 424 primary, 365 secondary and 18 Sanskrit teachers have received the National Awards.

Scholarship in Humanities and Social Science: The University Grants Commission has selected 160 teachers in Humanities including social sciences for award under the scheme of financial assistance to teachers for research work during 1968-69 (First Award).

The scheme has been instituted by the Commission with a view to encouraging teachers to undertake research work.

The following is a list of subjects and the number of teachers selected under each subject during 1968-69 (first award):—Hindi — 17; Sanskrit — 3; English — 9; Urdu — 1; Arabic — 2; Bengali — 3; Telugu — 1; Oriya — 1; Maithili — 2; Marathi; Gujarati — 1; Kannada — 1; Assamese — 1; Linguistics — 4; Archaeology — 6; History — 20; Pol. Science — 8; Economics — 18; Commerce — 13; Sociology — 10; Philosophy — 7; Psychology — 16; Education — 3; Law — 2; Lib. Science — 3; Fine Arts — 3; Pb. Administration — 2.

An amount of Rs. 1,01,400 has been shared by 160 teachers.

Scholarship in Science Subjects

The University Grants Commission has selected 313 teachers in Science subjects for award under the scheme of 'financial assistance to teachers for research work' during 1968-69 (first award).

The scheme has been instituted by the Commission with a view to encouraging teachers to undertake research work.

The following is a list of subjects and the number of teachers selected under each subject during 1968-69 (first award):—Physics — 33; Mathematics — 36; Civil Engg. — 12; Metallurgic Engg. — 2; Mechanical Engg. — 5; Geology — 36; Geography — 26; Anthropology — 3; Chemistry — 86; Bio-Chemistry — 3; Physiology — 3; Pathology — 1; Medical Sc. — 3; Zoology — 26; Botany — 29; Agriculture — 5; Micro-biology — 4.

A sum of Rs. 2,11,450 has been shared by 313 teachers.

The University Grants Commission has selected 17 teachers for the second award during 1968-69 under its scheme for utilisation of the services of retired teachers by universities and colleges for teaching, seminar and research

work. The award carries an honorarium of Rs. 6,000 per annum and an annual contingent grant of Rs. 1,000.

Among those selected together with their subjects and centres of work are:

Sanskrit: Dr. G. V. Devasthali (Poona University); Mr. S. Subramania Shastri (Sanskrit University, Varanasi); and Dr. B. N. K. Sharma (Ruparel College, Bombay).

Zoology: Dr. P. J. Deoras (Patkar College, Bombay).

MAHARASHTRA STATE AWARDS

The Maharashtra State awards for books published in 1967-68 have been divided into the adult literature section and children's literature section.

Adult Section: The following are the nature of the work, title of the book and author's name respectively.

(1) Poetry (Kavi Keshavsut Prize): "Ranatalya Kavita," by N. D. Mahanor (Rs. 1,300) and "Sandhyakalachya Kavita," by 'Grace' Manik Godghate (Rs. 1,500); (2) Drama: "Sati," by Vyankatesh Madgulkar (Rs. 1,500) and "Sage Soyare," by C. T. Khanolkar (Rs. 1,500); (3) Novels: (The Late Hari Narayan Apte Prize): "Anandi Gopal," by S. J. Joshi (Rs. 1,500) and "Ghar Gangechya Kathi," by Jyotsna Deodhar (Rs. 1,500); (4) Short Stories: "Surya," by S. D. Panavalkar (Rs. 1,500) and "Khalal," by Anand Ratan Yadav (Rs. 1,500); (5) Literary Prose (Essays, Sketches, Humour and Travelogues etc.): "Yugant," by Iravati Karve (Rs. 1,500) and "Shati Gandhar," by K. D. Dixit (Rs. 1,500); (6) Biography and Autobiography: "Mahatma Jyotirao Phule," by Dhananjay Keer (Rs. 1,500) and "Badashaha Khan," by H. M. Joshi (Rs. 1,500); (7) Criticism and Aesthetics: "Parampada Ani Havata," by Prof. G. V. Karandikar (Rs. 1,500) and "Natyacharya Deval" by Shinivas Narayan Banahatti (Rs. 1,500); (8) History, Economics, Politics and Sociology: "Karveer Riyasat," by S. M. Garge (Rs. 1,500) and "Malaji Raje ani Shahaji Maharaj" by V. S. Bendre (Rs. 1,500); (9) Philosophy, Psychology and Science of Education: "Niropya," by Rambhau Mhaskar (Rs. 1,500) and "Ek Shikshaki Shala Tantra Va Mantra" by M. G. Mali (Rs. 1,500); (10) Physics and Technology: "Dhatu ani Mishra Dhantunchya Jagat," by V. D. Sahastrabuddhe (Rs. 1,500) and "Anuhya Antarangat," by Prabhakar Sansagir (Rs. 1,500).

No prizes were awarded for one-act plays and philology and grammar.

First Publication Sub-Section: (1) Poetry: "Manora," by Padma Lokur (Rs. 500); (2) Novel: "Ghar Gangechya Kathi," by Jyotsna Devdhar (Rs. 500); (3) Short Story: "Khalal," by A. R. Yadav (Rs. 500); (4) Literary Prose (Literary Essays, Sketches, Humour, Travelogue, etc.): "Andaman Te Anandaman," by Madhav Rajwade (Rs. 500).

No prize was awarded for drama and one-act plays.

Children's Section: (1) Short Stories, Fairy Tales, Folk Tales: "Gadhitil Bhujanga," by Sudhakar Prabhu (Rs. 500) and "Anandranvan," by K. Narkhede (Rs. 500); (2) Biography: "Aichya Athavani" Part (I to VIII), by Shyamala Shirolkar (Rs. 500) and "Yantradevache Upasak" (Part I and II), by Dr. P. N. Joshi (Rs. 500); (3) General Knowledge, Hobbies, and Scientific Literature: "Mulanche Matsyalaya," by Vasudha Pande (Rs. 500) and "Nisargavar Mat," by Avinash Phanasalkar (Rs. 500); (4) Drama: "Bal Govind," by Prof. Vasant Bapat (Rs. 500) and "Ganara Vav," by Meghasham Matkari (Rs. 500); (5) One Act Play: "Nirbudhda Rajachi Nagari," by V. S. Puri (Rs. 250).

No prize was awarded for poetry.

Special Prizes : "Mrityunjaya" (novel), by Shivaji G. Sawant (Rs. 1,000); "Malani" (short stories), by R. R. Borde (Rs. 1,000); "Musalman Marathi Santakavi" (biography and autobiography), by R. C. Dhere (Rs. 1,000); "Sahitya Vivechan" (criticism and aesthetic) by Dr. N. G. Joshi (Rs. 1,000); "Navya Maharashtra Shikshan" (philosophy, psychology and science of education), by G. V. Akolkar and "Shailidar Phalandaji" (children's literature, general knowledge, hobbies and scientific literature), by Madhusudan Ramchandra Rege (Rs. 500).

UNESCO Prize Competition for Books

The Government of India, in cooperation with UNESCO, held the first biennial Competition for Books for New Reading Public in 1959. Six books (4 in Hindi and 2 in Bengali) won the prize. In the Second Competition held in 1961, 7 books (4 in Hindi and 3 in Tamil) were awarded the prizes. In the third competition seven prizes of the value of Rs. 1,900 approximately (US \$400 each) in three Indian languages, that is, four in Hindi, two in Bengali and one in Urdu, were awarded to the best books. In the fourth competition seventeen books were awarded the prizes.

The fifth competition, held in 1967, carried 17 prizes of Rs. 946 each but actually 16 were awarded.

The sixth competition, designated as "UNESCO Sponsored national Contest for Best Manuscripts for New Reading Public and or Children and Juveniles" carried 16 prizes of Rs. 1,650 each but only nine prizes were actually utilised.

List of Prize Winning Manuscripts under the Sixth UNESCO Prize Competition with title of the book, language and name of the author respectively are: *Hamari Duniya* (Hindi) Yug Datt Sharma; *Himalaya Ki Pukar* (Hindi) Jai Prakash Bharti; *Tila Ughad* (Marathi) Dr. Sitaram Ganesh Desai; *Bahu Betian De Nau* (Punjabi) Dr. Jaswant Gill; *Mere Pind Da Jivan* (Punjabi) Giani Gurdit Singh; *Vazi Kattiya Uthamar* (Tamil) Sh. Kalvi Gopalkrishna; *Mahakavi Gurajada* (Telugu) Devulapalli; *Quadrat Ke Bhed* (Urdu) Md. Ishaq Siddiqi; *Aaj Ki Science* (Urdu) Inderjit Lal.

In all 62 books have been awarded in the six competitions.

SHANKAR'S INTERNATIONAL CHILDREN'S COMPETITION 1967

The highest international awards for the best painting submitted for the Shankar's International Children's Competition 1967 — the President's Gold Medal — has been awarded to Katerina Frosslova (11 years) of Czechoslovakia and that for the best literary entry — the Vice-President's Gold Medal — to Kwonping Ho (15 years) of Singapore.

In all, 412 prizes were awarded of which 375 were for paintings and 37 for literary entries.

The highest number of awards were won by India — 83 and Japan — 45.

The 24 Nehru Gold Medals were won by the following countries: Australia — 3, Britain — 1, Ceylon — 1, Czechoslovakia — 1, German Democratic Republic — 2, Hungary — 1, Ireland — 2, Japan — 2, Malaysia — 1, New Zealand — 1, Poland — 1, Singapore — 1, U.S.S.R. — 2, Yugoslavia — 1, and India — 4.

Among the Nehru Award winners are Shaikh Mohammediqram Husenmiya (Baroda), Nirmala Krishna Bhandari (Bombay), and Sashi Agarwal (Delhi).

ART

Craftsman's National Award of Rs. 1,000, a specially designed shawl and a brass plaque. 26 master craftsmen were honoured in recognition of their high standard of craftsmanship.

The scheme was instituted by the All-India Handicrafts Board in 1965.

MUSIC, DANCE, DRAMA

The Sangeet Natak Akademi, New Delhi makes annual awards to outstanding artists in the fields of dance, drama and music. The winners are selected by its General Council. The Awards presented by the President consist of a shawl, and a memento each to Fellow and silver plaque and Rs. 5,000 cash each to Awardees.

Below is the list of Fellows and Award-winners of the Akademi Awards 1968.

Fellow : Kali Charan Patnaik.

Awards

Dance : Chinta Krishnamurti (Dance Guru — Kuchipudi); Smt. Damayanti Joshi (Kathak); Smt. Kamala (Bharatnatyam); Kurichi Kunjan G. Panicker (Kathakali).

Drama : Badal Sircar (Play-writing : Bengali); Mohan Rakesh (Play-writing : Hindi); Prof. Jashwant D. Thaker (Acting — Gujarati); Late Phani Bhusan Vidyabinode (Acting — Traditional Theatre — 'Jatra').

Music : Smt. Mogubai Kurdikar (Hindustani Vocal); Ustad Mushtaq Ali Khan (Hindustani Instrumental — Sitar); Alathur S. Srinivasa Iyer (Karnatak Vocal); Prof. K. Sivarama Narayanaswami (Karnatak Instrumental—Veena).

CULTURAL SCHOLARSHIPS

List of Scholars selected for the Award of Scholarships to young workers in different cultural fields—1967-68 :

Hindustani Music (Vocal) : Kumari Anita Bose (Kheyal); Kumari Jayanti Biswas (Dhrupad); Baldev Raj Verma (Kheyal).

Hindustani Music (Instrumental) : Swapan Kumar Chaudhuri (Tabla); Ravindra Kumar Adeshra (Sitar); Ashok Kumar Solanki (Shehnai).

Karnatak Music (Vocal) : Kumari K. R. Vasantha; Kumari K. Prema; Kumari M. K. Visalakshi.

Karnatak Music (Instrumental) : T. K. Padmanabhan (Violin); K. Srivatsa (Mridangam); Kumari S. Syamala Devi (Veena).

Rabindra Sangeet : Smt. Rina Bandyopadhyay; Smt. Shyamasree Das Gupta.

Folk Song : Narasimha Murty Manapragada.

Western Music : Joseph Ranjore.

Kathak Dance : Smt. Vishnu Priya Pawar.

Bharata Natyam : Kumari Revathi Rangachar; Kumari K. Jayashree.

Kathakali Dance : E. Vasudevan.

Drama : Smt. Latika Basu; Prakas Kumar Nandi.

Painting and Sculpture : Kumari Mukti Das (Painting); Aravinda Chakravatry (Painting); Dilip Kumar Saha (Sculpture).

CHILDREN

The Indian Council for Child Welfare has selected eight children for national awards for 1968 for outstanding courage.

The Award winners are : Master Dharam Singh (Himachal Pradesh); Master K. D. Kharate (Maharashtra); Master N. Nagaraj (Mysore); Miss Swaranlata Mohanty

(Orissa); Master Nityananda Mandal; Master Dhruba Rudra and Miss Shampa Mukherjee (all from West Bengal).

Master M. K. Kuttapan (Kerala) who lost his life while saving another child from drowning, was given a posthumous award.

GRAM SEVAKS/SEVIKAS

The award which relates to the ninth all-India competition (1966-67) for Gram Sevaks at the National level has been offered to T. G. Marathe, Akola Block, Dist. Akola, Maharashtra. These awards are given for outstanding work at the National, State and District level. Among the Union Territories the State level prize has been won by G. C. Kaushik, Shahdara Block, Delhi.

In the fifth all-India Competition for Gram Sevikas (1966-67) the National level prize was won by Smt. U. S. Toragal, Jamkhandi Block, Bijapur Dist. Mysore State and among the Union Territories by Ng. Dungsha Mayon, Imphal East Dev. Block, Manipur.

Village Bankli, Sumerpur Block, Dist. Pali, Rajasthan won the best prize at the National level among the villages in the country.

The prizes for the best Gram Sevaks/Sevikas were awarded in the shape of National Savings Certificates and a pedestal cycle along with a Certificate of Merit.

The items of work for which the competitions are organised relate to agriculture, production, animal husbandry, co-operation and panchayats etc. in the case of gram sevaks, and agriculture, animal husbandry, environmental sanitation, nutrition, and home improvement, etc. in the case of Gram Sevikas.

PRINTING AND DESIGNING

The 13th National Awards in 26 categories for excellence in printing and designing of books and other publications for 1967 were given.

These Awards are being organised every year by the Directorate of Advertising and Visual Publicity, Ministry of Information and Broadcasting.

Following is the full list of the recipients of the Awards in the order of first, second prizes and certificate of merit with the names of publishers respectively.

Children's Books : *Nagnati* (English); M/s. Children's Book Trust, New Delhi; *Chandradev* (Hindi); M/s. Children's Book Trust, New Delhi; *Hathion Ki Kahaniyan* (Hindi); M/s. Children's Book Trust, New Delhi.

Art Books : *Ajanta Murals*; Archaeological Survey of India, New Delhi; *South Indian Paintings*; National Museum, New Delhi; *Chamba Painting*; Lalit Kala Akademi, New Delhi.

Books (English) : First and Second prizes were not awarded. *Multilingual Technical Dictionary on Irrigation and Drainage*; Inter-national Commission on Irrigation and Drainage, New Delhi; *President Zakir Husain* (A Quest for Excellence); M/s. Popular Prakashan, Bombay.

Books (Indian Languages) : *Modern Kannada Fiction* (A Critical Anthology); The Department of Indian Studies, The University of Wisconsin, Madison; *Dinabandhu Rachnabali* (Bengali); M/s. Shishu Sahitya Samsad Pvt. Ltd., Calcutta; *Gujarati—Marathi Shabdakosh*; Maharashtra State Sahitya & Sanskriti Mandal, Bombay.

Daily Newspapers (English) : *The Statesman*; M/s. The Statesman Ltd., New Delhi; *The Economic Times*; Messrs. The Times of India, Bombay.

Daily Newspapers (Indian Languages) : *Navbharat Times* (Hindi); M/s. The Times of India, New Delhi; *Prajavani* (Kannada); M/s. The Printers (Mysore) Pvt. Ltd., Bangalore; *Hind Samachar* (Urdu); M/s. Hind Samachar, Jullundur City.

Display Advertisement Layouts : *Announcing* (Every Friday); M/s. Air-India, Bombay; *Fewer Breakages—More Moments Saved*; M/s. S. F. Products India Ltd., Calcutta; *Little boys will do anything for utterly butterly delicious Amul butter*; M/s. Khaira Distt. Coop. Milk Producers Union Ltd., Anand.

Art Magazines :—Not rewarded.

Periodicals other than Annuals (English) : *Span*; U.S.I.S., New Delhi; *Indian Cashew Journal*; Cashew Export Promotion Council, Ernakulam; *Pulse*; M/s. Sandoz (India) Ltd., Bombay; *Traveller in India*; India Tourism Development Corporation, New Delhi.

Periodicals other than Annuals (Indian Languages) :—Not awarded.

Posters (Names of prize-winning poster with their designers) : *Km. Subhalakshmi Borooah in Bharat Natyam*; Shri O. C. Ganguly, Calcutta; *For Pure Honey Look for Agmark*; Directorate of Advertising & Visual Publicity, Min. of I. & B., New Delhi; *Rani Karna in Kathak and Orissi*; M/s. Shuchi Pvt. Ltd., New Delhi.

Folders (Offset Photogravure) : *Souvenir of Nepal*; Deptt. of Tourism, His Majesty's Govt. of Nepal, Kathmandu; *Katemesin*; M/s. Raptakos, Brett. & Co. Pvt. Ltd., Bombay; (Certificate of Merit) Not awarded.

Folders (Letter Press) : *TWA Announces 8 flights a week from Bombay*; M/s. Trans World Airlines, Bombay; *You can predict . . .*; M/s. Dey's Medical Stores (Mfg.) Pvt. Ltd., Calcutta; *When a woman discovers*; M/s. Franco-Indian Pharmaceuticals Pvt. Ltd., Bombay.

Calendars (Offset photogravure) : with name of designers: *Voltas Calendar* 1968; M/s. Voltas Ltd. Bombay; *Air-India Calendar* 1968; M/s. Air-India, Bombay; *Philips India Ltd., Calendar* 1968; Shri Satish Gujral, New Delhi.

Calendars (Letterpress) : with the names of designers: *Anil Starch Products Ltd., Calendar* 1968; M/s. Jaymica Graphic Designers, Baroda; *Tractors & Farm Equipment Ltd., Calendar* 1968; M/s. Tractors & Farm Equipment Ltd., Madras; *Martin Burn Ltd., Calendar* 1968; M/s. Daw Sen & Co. P. Ltd., Calcutta.

Diaries : 1968 *Diary*; *Nestle's 1968 Diary*; M/s. Nestle's Products (India) Ltd., New Delhi; 1968 *Desk Diary*; M/s. Tata Industries, Bombay.

Devanagari Type Faces : 1st & 2nd Prizes were not awarded; 24 pt. *Bakul*; M/s. Prakash Type Foundry, Poona.

Publicity Booklets, Annuals & Souvenirs (Offset) : *Poreba TR-70C Face Lathe*; M/s. Metalexport, Poland; *Armour Shirts Glitter at R. Bagoomal*; M/s. R. Bagoomal, Bombay-1; *Annual Report* 1966; M/s. Pfizer Ltd., Bombay-1.

Publicity Booklets, Annuals & Souvenirs (Letter Press) : *Dress Materials of India*; The Cotton Textiles Export Promotion Council, Bombay-4; *Footwear from India*; M/s. Sen & Pandit Pvt. Ltd., Calcutta-1; *Dr. Zakir Husain*; Directorate of Advtg. & Visual Publicity, Min. of I. & B., New Delhi.

Labels : *Brooke Bond Super Dust Tea*; M/s. The Radiant Process, Calcutta-13†; *Accos Prime Garden Peas*; M/s. The Metal Box Co. of India Ltd., Bombay-18.†

(Certificate of Merit) Not awarded.

Best Bound Books : *Howrah Area Development Plan*; M/s. Bengal Book Binding Co., Calcutta‡; *Tibet* (Land of Snows); M/s. Swapna Printing & Binding Works, Calcutta-9‡; *An Artist in Life*; M/s. Swapna Printing & Binding Works, Calcutta.‡

Packaging : (with names of designers): *Landy Motison Permanent Pleated shirt carton top*; M/s. Studio Commfine, Bombay; *Atom Sandals carton*; 1. 'Tiger' Design Biscuit tin; M/s. The Britannia Biscuit Co. Ltd., Bombay; 2. 400g 'Red Rose' container; M/s. Parle Products Mfg. Co. Pvt. Ltd., Bombay.

Point of Sales (Counter & Display Material): with names of designers: *Give Dunlopillo Pillows and Cushions showcard*; M/s. S. H. Benson (India) Ltd., Calcutta; *'Silvo' Silver Polish showcard*; M/s. Clarion-McCann Advertising Services Ltd., Calcutta; *"Searching Jewellery" showcard*; M/s. Versatileco., Calcutta.

Greeting Cards : *Baramasa*; M/s. Vakil & Sons Pvt. Ltd., Bombay; *Landscape Palitana*; M/s. Thacker & Co. Ltd., Bombay; 1. *Best O'Luck*; M/s. Vakil & Sons Pvt. Ltd., Bombay; 2. *Wishing you a Bright and Happy Diwali*; Caltex (India) Ltd., Bombay.

Picture Postcards : 1st & 2nd Prizes were not awarded. *Market Scene, Darjeeling*; M/s. Ganga Saran & Sons Pvt. Ltd., Calcutta.

Direct Mail (Leaflets, Blotters etc.): 1st & 2nd Prizes were not awarded; *Sigul card*; M/s. Sarabhai Chemicals, (Karamchand Premchand Pvt. Ltd.), Baroda.

SPORTS

The Government of India have made selections for the "Arjuna Awards" to the Sportsmen of the year 1967, on the basis of outstanding contribution made to enhance the glory of the game during the year. These awards were instituted in 1961.

The Sportsmen who were awarded Arjuna Awards for 1967 were: Praveen Kumar, Bhim Singh (Athletics); Suresh Goel (Badminton); Khushi Ram ((Basket ball); Ajit Wadekar (Cricket); Peter Thangaraj (Football); R. K. Pitambar (Golf); Harbinder Singh, Jagjit Singh, Mohinder Lal (Hockey); Premjit Lall (Lawn Tennis); Arun Shaw (Swimming); Farouk R. Khodaiji (Table Tennis); Savarimuthu John Gabriel (Weight Lifting); Mukhtiar Singh (Wrestling).

AWARDS FOR INVENTIONS

The Inventions Promotion Board has on Jan. 25, 1969 declared 12 awards totalling Rs. 15,000. Since its inception in 1960, the Board has recognised 482 inventions. So far (November 1968) the Board has given award totalling Rs. 1,90,950 and financial assistance of Rs. 4,63,000.

The prize winning persons together with their inventions are as follows :

An award of Rs. 5,000 has been made to four engineers of the Beas Project (the Punjab), Jagman Singh (2,000) and S. L. Bhatia, Banta Singh and Narendra Nath (Rs. 1,000 each) for making an improved type of vibratory roller for compacting soils, with indigenous materials and know-how.

Dr. S. K. Barat (West Bengal) has been awarded Rs. 2,000 for developing a simple and economic process for manufacture of dry and ready to wet sausage casings

and allied products from animal intestine which is treated as waste in slaughter-houses. This process has a great export potential.

An award of Rs. 1,000 has been made to S. I. Sanklecha of Ahmednagar for developing a portable machine "fer-flux" PM-1 yoke magnetic detector kit for crack detection. The portability has added to the versatility of this machine in that the different components of heavy machines need not be dismantled and carried to fixed stationary crack detectors, instead these can be tested in position with the new machine.

K. R. Wagh of Bombay has been awarded a prize of Rs. 1,000 for developing an improved grout pump for use on dams. The pump is compressed air-operated and is comparable with imported pumps.

C. Narayan Rao of Masaulipatam has been awarded Rs. 1,000 for making an attachment for centre lathe for producing helical or super gears and pinion. This attachment eliminates the need for a separate gear hobbing machine.

Chandama Prasad Srivastava, Bikash Ranjan Guha and Birendra Bhusan Prasad of Durgapur have shared an award of Rs. 1,000 for formulating of flux composition by selecting proper constituents and establishing optimum conditions for furnace brazing of aluminium and its alloys.

For developing silver oxide zinc cells, Dr. Prem Behari Mathur and Nallagoundar Karuppannan of Karaikudi have been jointly awarded Rs. 1,000. The inventors have developed complete know-how for these cells, which have been found comparable to imported ones.

G. D. Joglekar and Chiranji Lal Verma of Delhi have been awarded jointly Rs. 1,000 for improving the technique and developing the equipment for manufacture of arc lamp carbon rods with the core and shell material. The development makes the manufacture of these rods, economical besides saving considerable foreign exchange.

An award of Rs. 500 has been awarded to S. B. Nayar of Jaipur for making a roller conveying device for use on centre-less grinding machines. With this device the operation becomes automation and there is considerable saving in labour.

G. M. Pathak of Poona has been awarded Rs. 500 for improving the reciprocating type of pump for decating liquids. The improvement relates to the leather valve. Joginder Singh of Allahabad has been awarded Rs. 500 for developing an improved diameter gauge. The new tool is compact and gives quick measurements.

J. R. Nanda of Bangalore has been awarded Rs. 500 for making a portable kit for quick testing of acid content in insulating oil. This portable kit obviates the necessity of taking samples of transformer and switchgear oils to laboratory for testing.

Awards to Inventors in Maharashtra : The award winners were : T. R. Kirad, G. V. Sathe, M. R. Sathe, Mrs. S. N. Damle, Dr. (Mrs.) S. D. Chitaley, D. V. Chitaley, Dr. Gopal Rao Savur, Rajju Devidas, Dr. Sham Lal Kapur, G. A. Deshpande, R. V. Joglekar, Krishna Gopal, J. G. Gajjar, K. S. Khainar, Prabhatcharan Mukherjee and V. P. Gohal.

NEHRU AWARDS

Jawaharlal Nehru Award for International Understanding : This is administered by the Indian Council for Cultural Relations, New Delhi.

The Award is given for outstanding contribution to the promotion of international understanding, goodwill and

† Designers.

‡ Binders.

friendship among peoples of the world and is open to all persons, regardless of nationality, race, creed or sex. There shall be one Award each year and it shall carry an amount of Rs. 1 lakh in cash and a citation. The Award may be divided between two persons who are considered by the Jury to be equally deserving of recognition in a given year.

The second award for 1966 has been conferred posthumously on late Martin Luther King, the Negro Freedom Fighter, which was offered to his wife, Mrs. Cotter King in Jan. 1969.

Nehru Literacy Award : The first Nehru Literacy Award for outstanding contribution in the field of adult literacy was offered to Dr. (Mrs.) W. H. Fisher, founder of the Literacy House in Lucknow.

The award has been instituted by the Indian Adult Education Association, the only all-India voluntary organisation for the promotion of adult education.

Nehru Prize for Russians : The prize was started by the Indian Government in 1967. It is annually awarded to Soviet literary and art workers who contribute to the strengthening of friendship and understanding between the people of the USSR and India.

Prizes for 1968 were awarded to Vatsis Reimeris and Alexander Shifman (writers), Mrs. Natalia Guseva, Dmitri Nalbandyan (artist) and Yevkeni Vuchetich (sculptor).

Soviet Land Nehru Awards (1968) :— Winners: Baby Abha Vinayak Purohit (10), Lady Vissanji Girls' Academy, Bombay; boys (all 12 years), Yogesh Shah of the Vividhlaxi Vidya Mandir, Palanpur; Pankaj Shyam-bhai Kansara of the Shree Vidyanagar High School, Ahmedabad; and Kandarp Krishanlal Shah of the University Experimental School, Baroda.

Other recipients were: Mrs. Jaya Thakore, a Gujarati writer, Miss Quratulain Hyder, a Urdu writer, Dr. Arjan Sikayal, a Sindhi author, Narayan Surve, a Marathi poet, Mrs. Sarla Karkhanis, a Marathi writer, and Chandrabhai Bhatt, a Gujarati author.

MISCELLANEOUS AWARDS

Bhabha Memorial Trust Scholarship for promising students at the under-graduate level was awarded to Miss S. R. Jhaveri, St. Xavier's College, Bombay.

Birbal Sahni Award : Dr. M. S. Swami Nathan was awarded Birbal Sahni Medal for 1965 on Jan. 5, 1966.

Horniman Journalist Award (1966-67) : Winner: P. V. Gadgil, Editor 'Navashakti'.

Gokhale Best Teachers' Award (1966-67) : Winner: Dara R. Contractor, B. N. Gamadia Technical School, Bombay.

Kalinga Prize (1967) : Winner: Prof. Fred Hoyle, Director, Institute of Theoretical Astronomy, Cambridge University, U.K. The Kalinga Prize was established for the population of science and carries a cash award of £1,000 besides a month's stay as a guest of the Kalinga Foundation Trust.

Magsaysay Award : Mr. Satyajit Ray, the Indian movie director was awarded the 1967 Ramon Magsaysay Award of 10,000 U.S. dollars (Rs. 75,000) in cash, a gold medal and a Certificate.

Sandoz Award (1967) : This award for the best original paper published in 1967 on the prevention of mental diseases in India has been won by Dr. Dinshaw R. Doongaji of Bombay.

Shanti Swarup Bhatnagar Memorial Award : winners: Prof. B. Ramachandra Rao for physical sciences and A. S. Rao for engineering; Prof. R. C. Mehrotra, Rajasthan University and Prof. S. Basu, Calcutta University—jointly for chemical sciences; Dr. N. K. Dutta, Haffkine Institute, Bombay and Dr. Ramalinga Swami, All-India Institute of Medical Sciences, New Delhi—jointly for medical sciences.

The award in each discipline carries a cash prize of Rs. 10,000.

NATIONAL AWARDS FOR FILMS

The following are the recipients of National Awards for Films for 1967 with names of films, producers, directors and the nature of awards respectively:

'Hatey Bazarey', a Bengali film has been adjudged as the best national feature film for 1967 by the Central Committee for National Awards for films. The film received the President's gold medal and its producer, Ashim Dutta and director, Tapan Sinha, got a cash prize of Rs. 20,000 and Rs. 5,000 respectively.

A special award for the second best feature film instituted for the first time during 1968, to a Hindi film 'Upkar'. Its producer, R. N. Goswami, received a cash prize of Rs. 5,000 while its director, Manoj Kumar a silver medal.

The national awards for 1968 included a number of new items. Uttam Kumar in 'Antony Firingee' and 'Chiriakhana' and Nargisin 'Raat Aur Din' were declared as the best actor and the best actress of the year respectively, while Mahendra Kapoor in 'Upkar' was adjudged as the best playback singer. Each of them received a plaque.

The awards for excellence in direction were given to Satyajit Ray in film 'Chiriakhana' while K. V. Mahadevan in 'Kandan Karunai' was declared as the best music director for 1968. Each of them received a cash prize of Rs. 5,000.

Regional Awards

Cash prizes of Rs. 5,000 and President's silver medals were awarded respectively to the producers and directors of the best regional films.

B. R. Chopra and P. P. Maheshwary, both producer-director, received awards for "Hamraaz" (Hindi) and "Sutlej de kande" (Punjabi) respectively. The others were P. Bhaskaran, director, and Ravi, producer of the Malayalam film, "Anveshichu Kandethiyilla", Bijoy Basu, director of the Bengali film, "Arogya Niketan", P. K. Sen Gupta and Dhiran Patnaik for the Oriya film "Arundhati", B. A. Arasa Kumar for the Kannada film, "Bangarada hoovu", G. S. Pathak and Anna Saheb for the Marathi film, "Santh Wahate Krishnamai", A. Nageshwar Rao for the Telugu film, "Sudigundal."

Urvashi Award (1968)

The national award for the best film actress, instituted from this year onwards, has been named "Urvashi Award," after the legendary "Abhinetri," Urvashi.

Nargis received the Urvashi Award for 1968 from the President, Dr. Zakir Husain on Nov. 25, 1968.

Another new award instituted for the best actor, has been named "Bharat Award" after the great dramatic sage "Bharat Muni." It was presented to Uttam Kumar.

International Film Festival Award: 'Haatey Bazare', a Bengali feature film and 'Moving Perspectives' a documentary produced by the Films Division, have been awarded a cup of honour (silver trophy) each with a diploma at the First International Film Festival held at Phnom Penh (Cambodia) in November 1968.

Filmfare Awards

See under "Late Particulars."

Sur-Snigar Awards (1968)

The Sur-Singar Awards for classical music in films for 1968 were:

The Dr. Brahaspati award has been given to music directors Shankar and Jaikishen for the song, *Jhanak jhanak tori baje*, in the film, "Mere Huzoor." The playback singer, Manna Dey, has been given the Mian Tansen award for the same song. Poet Hasrat Jaipuri got the Dr. V. D. Arora award for the best lyric.

Music director Ram Kadam got the Dr. Brahaspati award for the song, *Murtimant bhagwant bhetala mala*, in the Marathi film, "Chhand Preeticha," and playback singer Asha Bhosle the Mian Tansen award for singing that song.

Certificates of merit have been awarded to music directors, Ravi (Do Kaliyan) and Satish Bhatia (Boond Jo Bangayi Moti) and playback singers, Asha Bhosle and Suman Kalyanpur.

The titles have also been conferred on 10 musicians and five dancers. The title winning artists are:—Laxman K. Pandit, Shrikant Bakre, Rajkunwar Lokhande, Sulochana Yajurvedi, Raghunath Panigrahi, Amarnath-Pashupatinath—all vocalists: Ashok Roy (Sarod), V. B. Neela Roy (Veena), Sultan Khan (Sarangi) Anantlal (Shahnai) Sanjukta Panigrahi, Menaka Thakker, Padma, Kumkum Das, Sunayana. The first ten artistes were awarded Sur-Mani titles and the other five Singar-Mani titles.

Sultan Padamsee Award (1968): The award for playwriting—the first-ever prize for an English play written by an Indian—was presented to Gurcharan Das for his play 'Larins Sahib'.

JNANPITH AWARD (1967)

The third Bharatiya Jnanpith Award (1967)—the highest literary award in the country—was shared by two poets, Dr. K. V. Puttappa for his *Ramayana Darshanam* (a Kannada epic) and Umashankar Joshi for his collection of Gujarati poems *Nisheeth* respectively.

SCHEDULED CASTES, TRIBES AND BACKWARD CLASSES

THE regional organisation of the Commissioner for Scheduled Castes and Scheduled Tribes, comprising 17 offices of the Deputy Commissioners for Scheduled Castes and Scheduled Tribes located in various States was wound up in June 1967, and the offices were transferred to the Charge of the Directorate General, Backward Classes Welfare, a newly set up organisation in the Union Department of Social Welfare.

The total population of the Scheduled Castes and Scheduled Tribes according to the 1961 census, respectively were 64,417,366 and 29,837,266 as against 55,327,021 and 22,525,477 respectively in 1951 census, while the percentage to the total population being 14.67 and 6.80 respectively in 1961 against 15.32 and 6.23 respectively in 1951.

See article on 'Population' for State-wise figures.

SAFEGUARDS

The Constitution of India has laid down certain safeguards for Scheduled Castes, Scheduled Tribes and Backward Classes, the weaker sections of the people. These include reservation of seats in the legislatures, recruitment of tribal candidates to services and posts in the Union and State Governments, appointment of a Commission to report on the administration of the Scheduled areas and the welfare of the tribes.

A high power official committee set up by the Union Government has suggested that the special safeguards to Scheduled Castes and Scheduled Tribes be terminated by 1975. The committee is also understood to have made several proposals in detail for the revision of the lists of Scheduled Castes and Scheduled Tribes for purposes of entitlement to political, educational and economic benefits provided by the constitution.

WELFARE SCHEMES

Expenditure 1966-67

During 1966-67 a sum of Rs. 13.96 crores was spent by the Union Govt. on Welfare Schemes of the Scheduled Castes and Scheduled Tribes, Rs. 8.76 crores for the Scheduled Tribes and the balance for Scheduled Castes. The expenditure under State Sector was Rs. 8.95 crores for both Scheduled Castes and Tribes together.

State-wise expenditure on welfare schemes for Scheduled Castes and Scheduled Tribes respectively (Rs. lakhs) was as follows:—Andhra Pradesh 44.51, 83.06; Assam 47.83, 264.25; Bihar 52.58, 54.54; Gujarat 40.67, 133.12; Haryana 8.79 (a), (b); Jammu & Kashmir 6.27, (b); Kerala 20.46, 5.62; Madhya Pradesh 41.66, 335.66; Madras* 139.42, 18.27; Maharashtra 126.51, 98.38; Mysore 58.69, 15.75; Nagaland (c); Orissa 16.52, 169.36; Punjab 66.89, 3.30 (a); Rajasthan 20.42, 48.76; Uttar Pradesh 179.50, (b); West Bengal 96.89, 49.18; Andaman & Nicobar Islands (d), 0.74; Chandigarh (c); Dadra & Nagar Haveli (d), N.A.; Delhi 3.03 (a), (b); Goa, Daman & Diu (c); Himachal Pradesh 4.80 (a), 14.00 (a); Laccadive (d), 0.22 (a); Manipur 0.90 (a), 20.77 (a); Pondicherry 2.84 (a), (b); Tripura 0.72 (a), 29.93 (a).

Forty-five per cent of those who benefited as a result of distribution of about one crore acres of land during the last 16 years, belonged to the Scheduled Castes.

Allocation and expenditure on Scheduled Castes and Scheduled Tribes for 1966-67 under Central and State Sectors respectively (Rs. lakhs) were as follows:

Schedule Castes (Central Sector) 241.07; 522.02; State Sector 419.65; 425.22.

Scheduled Tribes (Central Sector): 1,011.97; 874.44; State Sector 506.48; 470.46.

* Now called Tamil Nadu.
(c) No Scheme was made under backward class sector.

(a) Central Sector expenditure is not available.
(d) No allocation has been made for the welfare of Scheduled Castes.

(b) No allocation has been made for Scheduled Tribes.

TRIBAL DEVELOPMENT

As of January 1968, only less than 50 per cent of the tribal population was covered by the 415 tribal development blocks and 43 special multi-purpose tribal blocks.

Each tribal block covers about 513 sq. km. and 25,000 people of whom, at least 66.6 per cent are tribals. It is proposed to cover areas of 50 per cent tribal population.

State-wise allocation and expenditure under State & Central Sectors on welfare programmes of Scheduled Castes during 1966-67

(Rs. lakhs)

States/ Territories	Education				Economic Uplift				Health, Housing & others			
	Allocation		Expenditure		Allocation		Expenditure		Allocation		Expenditure	
	Central	State	Central	State	Central	State	Central	State	Central	State	Central	State
A. Pradesh ..	7.09	10.00	25.82	9.96	—	—	—	—	8.73	—	8.73	—
Assam ..	1.00	7.75	7.77	8.35	0.50	1.50	0.06	0.62	4.00	0.75	3.98	0.39
Bihar ..	21.00	19.00	26.00	17.04	—	2.25	—	2.21	10.30	2.80	4.87	2.46
Gujarat ..	4.60	3.92	22.83	11.42	—	2.00	—	1.45	4.78	0.12	4.78	0.19
Haryana ..	—	4.40	—	7.40	—	1.07	—	1.07	—	0.32	—	0.32
J. & Kashmir	0.27	3.15	0.27	3.15	—	0.51	—	0.51	2.00	0.34	2.00	0.34
Kerala ..	0.87	10.48	6.20	5.12	—	3.15	—	2.56	7.00	1.89	6.08	1.50
M. Pradesh..	9.15	18.70	17.19	18.50	0.50	—	0.50	—	4.00	1.27	4.00	1.47
Maharashtra	27.00	10.00	86.01	10.14	—	18.98	—	3.03	4.62	10.00	6.49	20.84
Mysore ..	6.90	16.88	22.56	16.88	0.50	12.10	0.50	12.10	3.00	3.65	3.00	3.65
Orissa ..	1.70	8.10	3.25	7.97	1.00	0.62	1.20	0.42	1.00	2.73	1.00	2.68
Punjab ..	2.59	27.30	22.77	27.30	—	9.25	—	9.25	5.60	1.97	5.60	1.97
Rajasthan ..	2.12	6.00	6.38	6.00	0.50	2.50	0.50	2.50	4.50	0.54	4.50	0.54
Tamil Nadu	11.63	42.18	28.95	49.37	0.40	20.48	0.15	20.85	9.00	30.90	7.88	32.22
Ut. Pradesh	26.65	32.03	108.86	32.03	—	15.54	—	15.54	15.70	7.37	15.70	7.37
West Bengal	24.87	24.20	57.99	23.82	—	5.35	—	4.90	6.00	2.40	4.65	5.63
Delhi ..	—	0.86	—	0.86	—	0.03	—	—	—	2.20	—	2.17
Him. Pradesh	—	1.60	—	1.60	—	1.70	—	1.70	—	1.50	—	1.50
Manipur ..	—	0.30	—	0.30	—	0.20	—	0.20	—	0.40	—	0.40
Pondicherry	—	1.52	—	1.33	—	0.45	—	0.33	—	1.19	—	1.18
Tripura ..	—	0.35	—	0.30	—	0.71	—	0.32	—	0.20	—	0.10
Total ..	147.44	248.72	436.85	258.84	3.40	98.39	2.91	79.56	90.23	72.54	83.26	86.82

No allocations have been made for welfare programmes of the Scheduled Castes in Nagaland and for the territories of Andaman & Nicobar Islands, Chandigarh, Dadra and Nagar Haveli, Goa, Daman & Diu and Laccadives.

State-wise allocation and expenditure under State & Central Sectors on welfare programmes of Scheduled Tribes during 1966-67.

(Rs. lakhs)

States/ Territories	Education				Economic Uplift				Health, Housing & others			
	Allocation		Expenditure		Allocation		Expenditure		Allocation		Expenditure	
	Central	State	Central	State	Central	State	Central	State	Central	State	Central	State
A. Pradesh ..	1.26	3.00	2.28	1.19	47.00	22.00	47.00	29.16	2.40	1.00	2.40	1.03
Assam ..	9.40	32.70	23.74	31.12	89.50	84.75	90.52	71.08	3.00	47.55	0.93	46.86
Bihar ..	14.20	22.12	23.57	21.80	127.00	6.45	1.23	5.89	2.00	2.14	0.01	2.04
Gujarat ..	2.38	12.91	8.09	13.03	105.50	1.90	105.50	2.67	2.50	5.03	2.50	1.33
Kerala ..	0.11	2.02	0.52	1.32	5.50	1.33	2.21	0.73	—	1.25	—	0.84
M. Pradesh	7.74	43.04	10.68	43.04	260.00	12.24	260.00	12.24	4.00	5.70	4.00	5.70
Maharashtra	2.94	7.45	5.55	4.47	110.00	7.21	83.90	0.74	2.00	4.93	0.86	2.86
Mysore ..	0.37	4.92	0.54	4.92	7.00	2.10	7.00	2.10	—	1.19	—	1.19
Orissa ..	2.17	31.74	2.70	28.85	128.86	9.81	120.58	7.79	6.00	9.49	0.56	8.88
Punjab ..	—	—	0.30	—	—	—	0.30	—	3.00	—	3.00	—
Rajasthan ..	2.06	3.25	3.30	3.25	35.00	5.66	35.00	5.66	1.50	0.05	1.50	0.05
Tamil Nadu	0.21	3.37	0.67	2.67	7.00	3.64	7.00	3.24	0.50	4.49	0.50	4.19
West Bengal	2.77	23.20	3.86	23.63	4.00	8.66	3.77	6.01	13.10	3.35	8.68	3.23
A. & N. Islands ..	—	0.25	—	0.19	—	0.24	—	0.15	—	0.14	—	0.40
H. Pradesh..	—	2.00	—	2.00	—	1.80	—	1.80	—	10.20	—	10.20
Laccadives ..	—	—	—	—	—	—	—	—	—	0.40	—	0.22
Manipur ..	—	5.20	—	5.25	—	12.62	—	12.62	—	2.90	—	2.90
Tripura ..	—	1.23	—	1.45	—	25.18	—	27.38	—	2.32	—	1.10
Total ..	45.61	198.76	85.80	188.18	929.36	205.59	766.70	189.26	37.00	102.13	21.94	93.02

In the States of Haryana, Jammu & Kashmir, Uttar Pradesh, and the Territories of Chandigarh, Delhi, Goa, Daman & Diu and Pondicherry no allocations have been made for the welfare programmes of the Scheduled Tribes.

NON-OFFICIAL ORGANISATION

There are many voluntary agencies in the country working for the amelioration of the conditions of the Scheduled Castes, Scheduled Tribes, assisted by the Government of India directly. Some of them are of an all-India character. During 1966-67 a sum of Rs. 8,37,307 (for Scheduled Castes) and Rs. 7,18,756 (for Scheduled Tribes) was given as grant-in-aid by the Government to several such organisations. Some organisations are working for the improvement of the Backward classes, Nomadic and Semi-nomadic Tribes.

REPRESENTATION IN LEGISLATURES

(Please see under lists of legislatures)

REPRESENTATION IN GOVERNMENT

Services

The quota reserved for Scheduled Castes and Scheduled Tribes in the Government of India services is as follows :—

Direct Recruitment on all-India Basis :

12½ per cent of vacancies filled by open competition and 16½ per cent of the vacancies filled otherwise have been reserved for Scheduled Castes, and five per cent of the vacancies in all cases for the Scheduled Tribes filled through open competition or otherwise.

In cases of promotion, the following orders have been issued :

For Non-Selection Posts :

(a) if promotion is made subject to the passing of a qualifying departmental examination, the standard of qualification for Scheduled Castes and Scheduled Tribes need not be so high as prescribed for other candidates ;

(b) if promotion is made otherwise than by a qualifying examination, Scheduled Caste and Scheduled Tribe Candidates should be adjudged sympathetically without applying too rigid a standard and the candidates belonging to these castes and tribes should not be superseded without their cases being reviewed at high levels.

For Selection Posts :

(a) if promotions are to be made on the basis of a competitive examination, the communal orders will apply and any Scheduled Caste and Scheduled Tribe candidates, who are above the minimum standard for necessary efficiency, may be selected for appointment against their reserved quota ;

(b) if the promotion is made otherwise than through a competitive examination, no relaxed standards of merit are to be applied for Scheduled Caste or Scheduled Tribe candidates.

Employment Exchange Statistics

Scheduled Castes : Total registration 431,704 ; Placement under Central Government 14,900 ; Placement under State Government 23,329 ; Placement under other employers 18,262 ; Total placement 56,491 ; Number on live register at the end of the year 295,814 ; Number of vacancies notified (as reserved) 9,605 ; Number of reserved vacancies filled 4,179.

Scheduled Tribes : Total registration 80,133 ; Placement under Central Government 8,352 ; Placement under State Government 4,979 ; Placement by other employers

2,481 ; Number on live register 55,941 ; Number of vacancies notified (as reserved) 4,688 ; Number of reserved vacancies filled 1,299.

Occupational Categories

The following are the occupational classifications according to the live register of the persons registered with the Employment Exchanges. The figures in brackets shows the educational qualifications, viz. non-matric, matric and graduates* respectively.

Scheduled Castes : Doctors 2(— ; — ; 2) ; Engineers 32(— ; — ; 32) ; Typists 2,418 (65 ; 2,290 ; 62) ; Stenographers 67(— ; 66 ; 1) ; Assistants/Clerks 28,679(1,136 ; 25,828 ; 1,715) ; Teachers 4,329(1,215 ; 2,943 ; 171) ; Craftsmen & Production process workers 12,439(10,077 ; 2,353 ; 9) ; Unskilled Office workers 62,965(61,079 ; 1,811 ; 75) ; Unskilled labourers other than office workers 80,817 (80,379 ; 424 ; 14) ; Others 1,04,067 (78,123 ; 24,545 ; 1,399) ; Total 2,95,814(2,32,074 ; 60,260 ; 3,480).

Scheduled Tribes : Doctors Nil ; Engineers 2(— ; — ; 2) ; Typists 192(3 ; 182 ; 7) ; Stenographers 10(— ; 10 ; —) ; Assistants/Clerks 4,382(125 ; 4,051 ; 206) ; Teachers 879 (244 ; 510 ; 125) ; Craftsmen & Production process workers 1,956(1,633 ; 323 ; —) ; Unskilled office workers 10,820 (10,688 ; 187 ; 5) ; Unskilled labourers other than office workers 23,056(23,003 ; 52 ; 1) ; Others 14,644(11,777 ; 2,723 ; 144) ; Total 55,941 (47,473 ; 7,978 ; 490).

LEGAL AID, EDUCATION

Legal aid is provided by some State Governments from their own funds or from grants made by the Central Government. Allocations for legal aid in the Third Plan under the State Sector for Scheduled Castes and Scheduled Tribes respectively were Rs. 4.00 lakhs and Rs. 3.55 lakhs.

Education

Provision is made for grants of pre-matric scholarships to the Scheduled Caste and the Scheduled Tribe students. Most of the State Govts. are incurring a large expenditure out of their own budget also for grant of scholarships and stipends to the deserving students. In almost all the States, hostels are being run to make it possible for Scheduled Caste and Scheduled Tribe students to continue their studies. A limited number of students belonging to other communities are also admitted to these hostels to avoid segregation. In many States mid-day meals to Scheduled Caste and Scheduled Tribe students have been started.

Girls' Hostels

The programme of setting up hostels for Scheduled Caste and Scheduled Tribe girls in the middle and secondary stages of education was continued during 1966-67. The hostels are put up in rural and semi-urban areas, where concentration of Schedule Castes/Scheduled Tribes population and facilities for girls are inadequate. An amount of Rs. 13.78 lakhs and Rs. 11.17 lakhs was allocated, out of which Rs. 11.76 lakhs and Rs. 9.28 lakhs have been spent for Scheduled Castes and Scheduled Tribes respectively.

Ashrams & Sevashrams

Ashram schools are residential institutions where training in different trades or crafts like carpentry, weaving, smithy, tailoring and agriculture is given along with general education. All expenses are borne by the Government. Sevashrams are day schools where training in

* Graduates under post-graduates also.

spinning and gardening is given along with general education. The students are supplied with clothing, books, spinning material, etc., free of charge.

Many of the States have established ashram schools for spreading education at the primary and middle stages amongst the Scheduled Tribes.

Post-matric Scholarships : The number of post-matric scholarships awarded during 1966-67 to Scheduled Castes and Scheduled Tribes was 89,907 and 17,690 and the expenditure was Rs. 437.66 lakhs and Rs. 83.83 lakhs respectively.

COMPLAINTS

During 1966-67, 2,981 complaints were received at the headquarters and regional offices of the Commissioner's organisation. The nature of complaints and their number in each case are as follows :—Practice of untouchability 88 ; Harassment 339 ; Land and housing problem 608 ; Service matters 926 ; Miscellaneous matters including those relating to education, drinking water, allotment of shops, etc. 1,020.

BACKWARD CLASSES

The principal criterion for determining Backward classes is their low social position in the traditional caste hierarchy of the Hindu Society. As many as 930 com-

munities have been included in the above category and their estimated population is 115 millions. The Government of India have no recognised list of backward classes ; but the State Governments have been advised to have their own lists of such classes based on economic criteria.

The Government of India has decided not to draw up any all India lists of Backward Classes and has advised the State Governments to apply preferably economic tests than caste.

Following a judgement of the Supreme Court, the Central Govt. have accepted economic factors and not caste as the basis for determining the backwardness of people. Some of the State Governments have accepted this as the criterion for judging backwardness and other State Governments are being persuaded to fall in line.

Denotified, Nomadic and Semi-Nomadic Tribes

In the past, denotified communities, originally known as criminal tribes, were subjected to severe police controls and kept outside the fold of the society. Schemes have been undertaken for them like establishment of ashram schools, provision of houses and house-sites, settlement on land and grant of subsidy for the development of house-hold industries, etc.

During the year 1966-67 an amount of Rs. 70.92 lakhs has been spent for the welfare programmes of these tribes.

U. S. AID TO INDIA

U.S. economic assistance to India consists of both grants and loans. The total commitments of the U.S. under various agreements with the Government of India now stand at \$ 8,994.1 million (Rs. 6,745.58 crores).

U.S. Aid from the inception of the Economic Assistance Programme to India in June 1951 through January 1969. The first figure is in million dollars and the figure in brackets the rupee equivalent at current rate of exchange in crores : (a) Development Grants (not repayable) 414.1 (310.58) ; (b) Loans (repayable in rupees or dollars) 154.1 (115.58) ; 2. USAID Development Loans : (a) Repayable in dollars 2,361.2 (1,770.90) ; (b) Repayable in rupees 528.7 (396.53) ; 3. Public Law 480, Title I (grants, and loans repayable in rupees) 4,388.3 (—*) ; 4. Public Law 480, Title II (donations ; not repayable) 494.2 (370.65) ; 5. Emergency Flood & Famine Relief grants (not repayable) 5.5 (4.13) ; 6. U.S. Export-Import Bank loans (repayable in dollars) 458.3 (343.70) ; 7. Wheat Loan of 1951 (repayable in dollars) 189.7 (142.28) ; Total 8,994.1 (6,745.58).

Categories of Aid : The first figure is in million dollars and the figure in brackets the percentage of total : 1. Grants (not repayable) 1,752.7 (19.5) ; 2. Loans (repayable in dollars) 3,009.2 (33.4) ; 3. Loans repayable in rupees convertible to dollars at the option of the U.S. Government 161.7 (1.8) ; 4. Local currency repayments (these include loans repayable in rupees or dollars at the option of the Government of India ; the Cooley Fund for loans to private enterprise ; and amounts under PL-480, Title I, agreements reserved for U.S. Government uses) 4,070.5 (45.3) ; Total 8,994.1 (100.0).

DOLLAR-RUPEE CONVERSIONS

For the sake of uniformity and simplicity all dollar figures included in this Fact Sheet are shown with con-

versions in Indian currency at the current rate of Rs. 7.50 to the dollar. Prior to June 5, 1966 the rate of exchange was : \$ 1 = Rs. 4.76.

In regard to loans repayable in dollars, this Fact Sheet lists the equivalent of the entire loan amount in Indian currency at the current rate of exchange. However, in many cases a part of the loan has already been repaid at the old rate.

Loans repayable in rupees fall in two categories. In the first category are loans extended by the former U.S. Development Loan Fund (U.S.D.L.F.), and under the U.S.A.I.D. Mission's Technical Cooperation Programme. The loans provided foreign exchange in dollars, and the loan agreements included clauses providing that repayment would be based on the official rate of exchange at the time repayment was made. Thus devaluation had the effect of changing the outstanding balance in terms of rupees, though not in dollars.

In the second category are loans to the Government of India and to private enterprises from P.L. 480 funds. These loans are intended for purchasing supplies and services available in India. Devaluation does not affect the repayment terms. The borrower's liability is limited to the amount of rupees specified in the loan agreement.

American assistance to India is at present extended through the following three agencies.

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (U.S.A.I.D.)

This new Agency created on November 3, 1961 is in charge of activities previously administered by the International Cooperation Administration, which was represented in India by the Technical Cooperation Mission (TCM), the Development Loan Fund, the Public Law 480 Programme in its relation with other countries, and other

* It is estimated that PL-480 deposits under existing agreements will total approximately Rs. 2,365 crores, which is considerably less than the rupee equivalent of \$4,388.3 million at the current rate of exchange.

staff and related functions. A USAID Mission functions in New Delhi. Both grants and loans are extended by the Agency.

Dollar Grants : Technical cooperation : For the Technical Cooperation Programme, USAID extends grants and, at the request of the Government of India, makes available the services of American specialists. Support has been extended to malaria and smallpox eradication, agricultural and technological universities, the development of high-yielding cereals, dairy development, the training of craftsmen, community development and many other nation-building activities.

Amount : Dollar grants since the beginning of the programme total \$414.1 million [Rs. 310.58 crores].

U.S. specialists : Since 1951, 2,715 American specialists have served in India, sharing their skills and experience with their Indian colleagues. The figure includes 267 who are presently in the country. The specialists, whose services are made available at the request of the Government of India, belong to many different disciplines such as agricultural education, agronomy, engineering, entomology, family planning, labour relations, malaria eradication, mineral exploration, mining, nutrition, plant breeding, public administration, science education, soil and water management, technological education, and transportation. They work with government departments, educational institutions, and other organizations.

Indian participants : Another important aid activity concerns the provision of advanced training in the United States to Indian officials, teachers, engineers, health specialists and other personnel and facilitating visits by Indian specialists to the United States and other countries to enable them to observe developments in their fields of work. The total number of these Indian participants now stands at 5,000. This includes 200 who are still undergoing training in the United States.

Dollar Loans : Loans extended to India by USAID and its predecessor organizations are of two kinds : (1) those repayable in rupees and (2) those repayable in dollars.

Loans repayable in rupees : Loans extended to India by the Development Loan Fund (now absorbed into USAID) are repayable in rupees. These loans total \$528.7 million [Rs. 396.53 crores].

Prior to November 1961, TCM had extended to the Indian Government loans totalling \$154.1 million [Rs. 115.58 crores]. These were repayable in either rupees or dollars at the option of the Government of India. (For the sake of simplicity, a sum of \$5.8 million [Rs. 4.35 crores], which was made available to the Government of India in the form of Italian, French, and Japanese currencies in exchange for Indian rupees, is included in this item.)

Loans repayable in dollars : USAID has extended 48 loans repayable in dollars. They total \$2,361.2 million [Rs. 1,770.90 crores].

Terms : Repayment is scheduled over 40 years, with no payments of principal during a grace period of the first 10 years.

Interest : Recent loans bear an interest rate of 2 per cent per annum during the grace period and 3 per cent thereafter.

U.S. PUBLIC LAW 480 (Food for Peace Programme)

India has been the largest recipient of U.S. agricultural commodities under Title I, P.L. 480. The law has been extended to December 1970.

P. L. 480 Title I

Under this title the United States sells agricultural commodities to developing nations on concessional terms. India concluded the first PL-480 agreement on August 29, 1956. Since then nine additional agreements and 32 supplemental agreements have been signed—the latest on December 23, 1968.

The value of commodities covered by all PL-480 agreements is \$4,388.3 million (including some ocean transportation costs).

India pays for PL-480 supplies in rupees.

For \$4,226.6 million, the bulk of PL-480 proceeds, the agreements specify that 80.4 per cent should be returned by the United States to the Government of India in grants and loans for economic development (19.9 per cent as grants ; 60.5 per cent as loans). A sum equivalent to 6.5 per cent of the total is reserved for loans to private enterprise ; and 13.1 per cent is reserved for U.S. Government uses, but a substantial part of this amount, too, is utilized to promote a number of activities beneficial to India. PL-480 grants and loans have helped finance a great deal of development work undertaken by the Government of India.

The remaining \$161.7 million provided in the PL-480 agreements is repayable in rupees convertible to dollars at the option of the U.S. Government. This portion of the agreements is covered by a 40-year loan with the same provisions relating to interest rates and grace period as USAID loans repayable in dollars.

Title II

This title provides for donations of agricultural commodities to help meet famine or other urgent or extraordinary relief requirements, and for distribution through voluntary agencies such as CARE (Cooperative for American Relief Everywhere), Catholic Relief Services, Church World Service, Lutheran World Relief, and UNICEF (United Nations Children's Fund).

THE EXPORT-IMPORT BANK

The Bank authorizes loans, guarantees and insurance to facilitate the foreign trade of the United States. The Bank has authorized 28 loans to India totalling \$458.3 million (Rs. 343.70 crores). Its loans are in dollars and repayable in dollars. In determining interest rates, the Bank considers its own cost of borrowing money. The current standard interest rate is 5.5 per cent per annum.

GRANTS FROM U.S. PUBLIC LAW 480 SALE PROCEEDS

Figures in crores of rupees : Agriculture 35.83 ; Industry and Mining 6.61 ; Transportation 19.60 ; Labour 39.46 ; Health 123.34 ; Education 100.18 ; Total grants 325.00.

Loans to the Indian Government from U.S. P.L. 480 Sale Proceeds

Figures in crores of rupees : Agriculture 282.50 ; Industry 513.46 ; Labour 38.70 ; Health 76.42 ; Education 52.33 ; Community Development 5.08 ; Transportation 11.36 ; Total 1,128.85.

COOLEY FUND

The Cooley Amendment to U.S. Public Law 480 provides that a portion of the local currency proceeds from the sale of American agricultural commodities shall be made available for lending in the private sector to two categories of borrowers :

1. American firms or their subsidiaries operating in the host countries (India) or indigenous (Indian) firms having an affiliation with an American firm;
2. Indigenous firms of the host countries with no American affiliation but which facilitate the disposal of American agricultural products, e.g. local private warehouses storing grain or flour mills processing grain.

Loans amounting to Rs. 798,254,000 have been extended from the Cooley Fund.

U.S. ASSISTANCE FOR POWER DEVELOPMENT IN INDIA

India has received substantial assistance from the United States for power development. The U.S. has extended foreign exchange assistance totalling \$465.7

million (Rs. 349.28 crores). In addition Rs. 346 crores in Indian currency from the sales proceeds of farm products supplied under the Food for Peace (Public Law 480) programme have been extended in loans and grants for power development. Together, the American-aided power projects in India will, when completed, have an installed generating capacity of some 6.5 million kilowatts.

U.S.—Uses Rupees

PL-480 agreements between India and the United States provide for a sum of approximately Rs. 300 crores to be reserved for U.S. uses. U.S. owned Rupees are used to meet the expenses of the U.S. Government in India. A considerable share of U.S. owned rupees is being spent on programmes which are of direct benefit to India. These include Educational Exchange, Low-cost Textbooks, Procurement of Indian books and periodicals, American Studies in India and Research.

U. S. Technicians

U.S. Technicians assigned to India by field of activity as of June 30, 1968 are given in the table below :

Field of Activity	U.S. Fiscal Year ending June 30.									
	1952/59	1960	1961	1962	1963	1964	1965	1966	1967	1968
Agriculture and Natural Resources	401	59	58	45	50	49	42	48	60	105
Industry and Mining	295	30	36	41	34	26	21	10	12	13
Transportation	20	—	—	—	—	—	—	—	—	—
Labour	9	1	2	1	8	9	8	3	4	7
Health and Sanitation	104	26	19	26	21	19	15	11	7	12
Education	110	27	21	30	50	53	62	37	44	47
Public Administration	17	4	1	1	1	7	8	9	7	6
Community Development, Social Welfare and Housing ..	75	4	2	—	—	—	—	—	3	5
General and Miscellaneous ..	63	16	20	16	26	27	35	37	34	36
TOTAL	1126	140	167	159	160	190	190	191	171	231

Grand Total from 1952-68 : 2,715.

Indian-American Participant Training Programme

Nominations processed during U.S. fiscal year as of June 30, 1968 :—

Field of Activity	Fiscal Years							TOTAL
	1951/62	1963	1964	1965	1966	1967	1968	
Agriculture and Natural Resources	919	104	115	153	118	90	184	1,683
Industry and Mining	1,137	86	85	19	—	—	2	1,329
Transportation	91	—	—	—	—	—	—	91
Labour	98	21	18	18	26	18	15	214
Health	320	45	29	36	1	13	20	464
Education	621	19	19	—	10	10	43	722
Public Administration	21	36	41	53	40	77	57	325
Community Development, Social Welfare and Housing ..	11	—	—	—	—	1	—	12
General and Miscellaneous ..	154	33	16	8	14	—	—	225
TOTAL since 1951	3,372	344	323	287	209	209	321	5,065
Under Contract Arrangements*	(716)	(77)	(69)	(54)	(55)	(42)	(98)	(1111)

* Number of participants under contract arrangements have already been included in the above table.

Of the total (5,065), 4,628 participants have returned to India and are now working in their particular fields, 162 are in training in the United States and 275 are preparing to depart.

FOREIGN AID TO INDIA*

THERE has been a substantial decline in fresh authorisations of foreign assistance during the last eighteen months. These amounted to only \$982½ million in 1968-69 as compared to \$2,136 million in 1966-67. If PL480 assistance is excluded new authorisations amounted to only \$658 million in 1967-68 as compared to \$1,612 million in the previous year. This sharp drop in authorisations of fresh aid was due to several reasons. The U.S.S.R. and other East European countries had authorised aid in 1966-67 for a five year period, and only Bulgaria among these countries made any fresh commitment subsequently. Similarly, the International Development Association was not able to announce any authorisation in 1967-68 because its resources had not been replenished by its members. Finally, U.S. assistance was lower due to a reduction in the overall U.S. aid appropriations.

In the first half of 1968-69 only \$323 million of non-project assistance and \$81 million of project assistance had been committed. Subsequently, U.S.A. authorised a non-project loan of \$194 million and a loan of \$37 million for the expansion of the Trombay Fertilizer Project. The IDA authorised in the month of January 1969 a non-project loan of \$125 million, the first loan from that agency after December 1966. The authorisation this year was made possible by the welcome action of Canada, Sweden, Denmark, Norway, Netherlands, Finland, the Federal Republic of Germany and the U.K. in making advanced contributions to IDA funds in spite of the U.S.

contribution not being available. Total aid committed so far in the current year by the Consortium members amounts to \$760 million comprising non-project assistance of \$642 million and project assistance of \$118 million. To this the project assistance of \$16.5 million committed by the two non-Consortium countries, Sweden and Norway and PL 480 assistance of \$167 million should be added to arrive at the total aid available for the current year.

Aid utilisation, on the other hand, improved substantially during 1967-68. Total disbursements were higher by \$80 million as compared to \$1,506 million in 1966-67. Exclusive of food assistance, aid disbursements showed a sharp growth between the two years from \$933 million in 1966-67 to \$1,111 million in 1967-68. The result was a sharp decline of aid in the pipeline from \$3,280 at the end of March 1967 to \$2,676 million at the end of March 1968. Disbursements in the first half of 1968-69 are running about 17 per cent lower than in the corresponding period of last year largely because of a drop in food imports; the utilisation of assistance other than in the form of food-grains is also lower than in the first half of last year reflecting the general sluggishness in imports in spite of the improvement in industrial production. In view of the lower level of aid utilisation and disbursement during the year of a U.S. loan of \$225 million authorised in 1967-68, it is likely that the aid pipeline at the end of 1968-69 will be somewhat higher than at the end of March 1968.

FOREIGN AID (SUMMARY)

								(Rs. crores)
		Loans and Credits Repayable in		Grants	Total (2 + 3 + 4)	Assistance under U.S. P.L. 480/665 etc.	Grand Total	
		Foreign Currency	Rupees					
A. AUTHORISATIONS :								
1.	Upto the end of First Plan	..	212.26	14.61	137.96	364.83	16.92	381.75
2.	During Second Plan	..	1,049.36	229.59	121.46	1,400.41	1,130.73	2,531.14
3.	During Third Plan	..	2,303.44	49.55	132.29	2,485.28	450.63	2,935.91
4.	1966-67 .. .. .	..	1,045.90	24.75	77.68	1,148.33	306.82	1,455.15
			(104.93)	(—)	(0.82)	(105.75)	(149.28)	(255.03)
5.	1967-68 .. .. .	..	477.65	..	16.02	493.67	242.93	736.60
6.	April-September 1968-69 @	..	387.09	..	33.88	420.97	..	420.97
	Total Authorisations	..	5,475.70	318.50	519.29	6,313.49	2,148.03	8,461.52
			(104.93)	(—)	(00.82)	(105.75)	(149.28)	(255.03)
B. UTILISATIONS :								
1.	Upto the end of First Plan	..	124.13	2.29	70.18	196.60	5.07	201.67
2.	During Second Plan	..	607.92	116.82	160.64	885.38	544.81	1,430.19
3.	During Third Plan	..	1,751.86	156.38	106.06	2,014.30	853.22	2,867.52
4.	1966-67 .. .. .	..	626.67	9.44	92.68	728.79	324.03	1,052.82
			(65.50)	(1.72)	(3.74)	(70.96)	(62.10)	(133.06)
5.	1967-68 .. .. .	..	821.14	4.09	53.65	878.88	310.85	1,189.73
6.	April-September 1968-69	..	366.46	4.17	19.43	390.06	84.09	474.15
	Total Utilisations	..	4,298.18	293.19	502.64	5,094.01	2,122.07	7,216.08
			(65.50)	(1.72)	(3.74)	(70.96)	(62.10)	(133.06)

NOTE:—(1) Figures in brackets represent amounts authorised/utilised during the predevaluation period i.e. from April 1 to June 5, 1966.
(2) Data incorporate adjustments on account of debt relief. @ Provisional.

The following is a statistical presentation of the assistance in the form of loans received from friendly foreign countries and international organisations. Two statements, one

showing the amount of loans authorised and the sums drawn against them and another showing the repayments in respect of each loan are added at the end.

* Source : The Government of India Economic Survey for 1968-69 and Explanatory Memorandum on the Budget of the Central Government for 1969-70, Part II.

† This includes the authorisation of U.S. loan of \$225 million which was actually disbursed in May 1968.

Statement of Receipts

(In lakhs of rupees)

Countries	Amount of loans authorised	Revised 1968-69	Estimated balance as on 31-3-69 at post-devaluation rate of exchange	Budget 1969-70
U.S.A.	31,46,56	4,71,98	10,45,56	4,58,36
U.S.S.R.	7,39,63	55,92	4,40,93	66,18
U.K.	5,47,69	59,31	70,25	35,35
Canada	1,39,58	23,61	68,32	24,54
Federal Republic of Germany	4,76,48	58,93	36,98	23,80
Japan	2,22,06	61,41	28,64	12,45
Switzerland	22,88	3,00	12,79	4,44
Czechoslovakia	63,10	14,30	44,50	17,03
Yugoslavia	81,43	3,42	69,79	67
Poland	40,30	1,82	34,42	2,28
Austria	14,86	3,02	2,14	1,50
Kuwait Government	34,19	..	..	..
Netherlands	32,16	5,00	8,37	4,18
Denmark	11,48	1,91	5,57	2,11
New Zealand	33	..	..	..
Sweden	17,83	2,17	12,91	4,86
Bahrain	7,86	..	..	..
Italy	1,50	1,50	4	1
Belgium	2,78	1,68	5	1,05
France	39,00	9,27	22,44	19,91
Hungary	12,50	..	12,50	4
Bulgaria	11,25	..	11,25	4
Government of Qatar	12,88	12,88	..	..
International Agencies				
I.B.R.D.	2,63,88	17,88	15,67	9,99
I.D.A.	5,06,89	61,03	1,05,19	79,69
New Credits .. .. .	..	..	..	81,52
Grand Total	64,48,90	8,68,54	20,49,56	8,50,000

Statement of Repayments

Country	Actuals from 1955-56 to 1967-68	Revised 1968-69	Budget 1969-70
U.S.A.	1,56,46	45,87	51,91
U.S.S.R.	1,20,65	43,82	40,88
U.K.	74,54	23,14	23,71
Canada	12,21	51	1,77
Federal Republic of Germany	1,51,58	28,68	23,64
Japan	21,62	1,39	18,23
Switzerland	53	75	1,72
Czechoslovakia	1,36	5,19	6,57
Yugoslavia	3,23	2,08	3,22
Poland	2,80	1,90	2,15
Austria	1,54	66	81
Kuwait Government	23,77	4,34	4,34
Denmark	39	15	15
New Zealand	29	9	9
Sweden .. .. .	..	..	9
Bahrain	4,15	71	71
France .. .. .	..	80	1,10
Qatar .. .. .	..	3,51	94
Miscellaneous Credits .. .. .	..	8,55	4,45
International Agencies			
I.B.R.D. Loans	93,22	8,74 — 11,25*	21,12
Grand Total	6,70,34	1,80,88 — 11,25* 1,69,63	2,07,60

GRANTS

I. Assistance under the Colombo Plan

Assistance is received from Commonwealth countries under the Colombo Plan in the form of equipment, materials, etc. This includes grants in kind in the shape of raw materials for industry, equipment for dairy development, equipment for College of Engg., Delhi, non-project non-commodity imports for private sector, etc.

II. Assistance from the Govt. of U.S.A.

(a) *Assistance under P.L.480* — Grants under P.L.480 are expected to amount to Rs. 16.47 crores this year and Rs. 27.60 crores next year. Rs. 8 crores this year and Rs. 7.6 crores next year will be paid back to A.I.D. to meet the local cost of experts.

(b) *Assistance under Technical Cooperation Programme* — The Indo-U.S. Technical Cooperation Programme Agreement of 1952 provides for funds to be made available by the U.S. Government for mutually agreed projects and includes development loans and grants. Grants have been made in such fields as Agriculture and Natural Resources, Industry and Training, Transport and Communications, Health and Sanitation, Education and Public Administration. The grants are in the form of materials and equipment.

III. Assistance from the Govt. of Norway for Fisheries Development

Since 1952, Norway has been assisting this country in the development of fisheries. The project *inter alia* aims at raising the standard of living of the fishermen through an increase in the return for their activity by improvement of fishing methods, efficient distribution of fresh

* Refund of Principal amounts in respect of IBRD Loans paid during 1967-68 due to rescheduling of debts.

fish and improvement of fish products. The activities of the project, which were formerly confined to the State of Kerala, have now been extended to the States of Tamil Nadu and Mysore also.

IV. Other Assistance

Foreign assistance is also received from international philanthropic organisations like the Rockefeller Foundation and the Ford Foundation for schemes in the field of education, public health, agriculture, social uplift, community development, etc. Assistance is also received from

certain specialised agencies of the United Nations Organisation such as United Nations Technical Assistance Admn., United Nations Special Fund, United Nations Children's Emergency Fund, Food and Agricultural Organisation, W.H.O., etc.

Food Aid from countries, notably Australia, Canada and U.K. is estimated at Rs. 45 crores this year and Rs. 9 crores next year.

In addition, fertiliser is expected as aid from certain countries like Austria, Federal Republic of Germany, Sweden, etc.

OVERSEAS COMMUNICATIONS SERVICE

INDIA'S Overseas Telecommunications networks of telegraph, telephone, radio-photo and telex services are managed by the Overseas Communications Service. The administrative Head of the department is the Director-General with headquarters at Bombay.

The Service has 4 gate-way Centres for handling international communications at Bombay, Calcutta, New Delhi and Madras. The network consists of submarine telegraph cable systems from Bombay and Madras and wireless telegraph, phototelegraphs and radio-telephone systems from all the 4 Centres. The submarine telegraph cables as such are owned and maintained by Cable & Wireless Limited, London.

As on 1st November 1968, the Overseas Tele-communications network of India consisted of :—

*Direct Wireless Telegraph Services :—*With Afghanistan, Australia, United Kingdom (4 independent circuits), Burma, China (2 links: Peking & Shanghai), U.A.R., France, Federal Republic of Germany, Indonesia, Iran, Iraq, Italy, Japan, Kuwait, Nigeria, Poland, Philippines, Roumania, Singapore, Switzerland, Thailand, U.S.A. (2 independent circuits), U.S.S.R., Viet Nam (North), Viet Nam (South), Yugoslavia and Czechoslovakia.

*Direct Radio-Telephone Services :—*With Aden, Afghanistan, Australia (2 independent circuits), Bahrain, United Kingdom (4 independent circuits), Burma (2 independent circuits), China, Kenya, U.A.R., Ethiopia, France, Federal Republic of Germany, Hong Kong, Indonesia, Iran, Iraq, Italy, Japan (2 independent circuits), Nigeria, Singapore, Poland, Saudi Arabia, Switzerland, Thailand, Kuwait, Uganda, U.S.S.R. and Viet Nam (South).

*Direct Radio-photo Services :—*With United Kingdom, France, Federal Republic of Germany, Italy, Japan, Poland and U.S.S.R. All these services, with the exception of those with Poland, are operated directly from Bombay, Calcutta as well as New Delhi. The above services, with the exception of those with Japan and Poland are also operated directly from Madras. The services with Poland are operated from New Delhi only. Through these direct connections with international trunk routes, telegraph services are available with practically all the countries of the world. Similarly telephone service is available with a large number of countries in the world as given below.

*Switched Radio-Telephone Services :—*Abu-Dhabi, Alaska, Algeria, Argentina, Austria, Balearic Islands, Barbados, Belgium, Bermuda, Brazil, British Guinea, Bulgaria, Burundi, Canada, Canary Islands, Central Africa Republic, Ceuta, Chad Republic, Chile, Congo, Cuba, Costa Rica, Cyprus, Czechoslovakia, Denmark, Doha, Dubai, Faroe Islands, Federal Republic of Germany,

Fiji, Finland, France, French Sahara, Forbisher Bay (Canada), Gabon Republic, German Democratic Republic, Ghana, Gibraltar, Goosbay Labrador (Canada), Greece, Guatemala, Hawaii, Honduras, Hungary, Iceland, Irish Republic (Eire), Israel, Italy, Jamaica, Jebel Dhana, Jordan, Kenya, Kuwait, Lebanon, Leeward Islands, Libya, Luxembourg, Malawi, Malaysia, Malta, Mauritius, Mongolian Peoples' Republic, Manila, Mexico, Morocco, Muscat, Netherland Antilles, Netherlands, Newfoundland, New Hebrides, New Zealand, Nicaragua, Nigeria, Norway, Panama, Philippines, Poland, Puerto Rico, Qatar, Ras-Al-Khaimah, Rhodesia, Roumania, Ruanda, Ryukyu Islands, Sarawak, Senegal, Sierra Leone, Solomon Islands, Spain, Spanish North Africa, South Africa, South West Africa, Sudan, Sweden, Switzerland, Tanzania, Tangier, Tariff, Tortola (British Virgin Island) Trinidad, Tunisia, Uganda, U.A.R., United States of America, Vatican City, Virgin Islands, West Irian, Windward Islands, and Yugoslavia, Zambia Liberia, Saychelles, Rwanda, Turkey, Bahamas, Aden, S. Korea, New Zealand, Cambodia, Laos and Brunei and Ocean Liners which are equipped with the necessary equipment.

Radio-photo service is available with 24 other countries as shown below :

*Switched Radio-photo Services :—*Australia, Belgium, Canada, Czechoslovakia, Cyprus, Denmark, U.A.R., Finland, France, Germany, Nigeria, Norway, Portugal, Roumania, Sweden, South Africa, Switzerland, Yugoslavia and U.S.A.

*Multi-Address Press Broadcast (Telegraph) Services :—*The Overseas Communications Service provides news transmissions by radio-telegraph on behalf of the Ministry of External Affairs simultaneously to about 41 Indian Consular posts around the world.

*Reception of Foreign Press Broadcast (Telegraph) Services :—*The Overseas Communications Service provides Indian News Agencies with facilities for reception of Telegraph Press Broadcasts by Foreign News Agencies.

*Programme Transmissions Service :—*Facilities are offered for "programme transmissions" i.e. spoken despatches by representatives and correspondents of foreign Broadcast Organisations, for broadcast by their respective principals.

*Leased Telegraph Channels Service :—*Leased teleprinter channels for private customers on rental basis were introduced as a new facility by O.C.S. in the year 1957. This Service has since then expanded rapidly and 34 such channels are in use, as on 1st November 1968, by business concerns, etc. This facility provides means of communication by teleprinters directly between the parties.

*International Telex Services :—*The international telex service is the most modern form of facility available to

the public and, as with other countries in the world, there is a very large and phenomenally growing demand for the provision of such service.

International telex service was introduced for the first time in India in June, 1960 linking the Bombay/Ahmedabad group of subscribers with London, and *via* London with a number of countries in the world.

Direct Telex Services :—United Kingdom (3 independent circuits—one each from Bombay, Calcutta and New Delhi), Japan, Federal Republic of Germany, Philippines, Australia, Ceylon and Hong Kong. Through these direct connections with International network, telex service is available with 81 other countries as shown below.

Switched Telex Services :—Aden, Algeria, Argentina, Austria, Bahrain, Belgium, Bermuda, Brazil, Bulgaria, Canada, Chile, Czechoslovakia, Denmark, Doha, Dubai, Ethiopia, Faroe Islands, Fiji, Finland, France, German Democratic Republic, Ghana, Greece, Hungary, Iceland,

Irish Republic, Israel, Italy, Jamaica, Kenya-Uganda-Tanzania, Lebanon, Luxembourg, Malaysia, Malta, Mexico, Muscat, Netherlands, New Zealand, Nigeria, Norway, Peru, Poland, Republic of Sudan, Roumania, Singapore, Spain, Sweden, Switzerland, Turkey, Uruguay, U.S.A., USSR, Thailand, Yugoslavia, Kuwait, Panama, South Korea, Zambia, Barbados, Trinidad, Antigua, Dominica, Grenada, Montserrat, St. Kitts, St. Lucia, St. Vincent, Tortola, Boliria, St. Croix, Puerto Rico, St. Thomas, Guyana, Papua, New Guinea, Taiwan, Venezuela, Colombia and Saudi Arabia.

All International Telex services are integrated with the internal telex system, which the Indian P. & T. has made available to the Indian public in 25 cities viz. Calcutta, Bombay, New Delhi, Madras, Ahmedabad, Secunderabad-Hyderabad, Bangalore, Kanpur, Coimbatore, Nagpur, Patna, Madurai, Poona, Gauhati, Tiruchirapalli, Jaipur, Vijayawada, Cochin, Amritsar, Baroda, Jamshedpur, Lucknow, Ranchi, Srinagar and Surat.

GOVERNMENT INDUSTRIAL UNDERTAKINGS

IN the following pages we give short notes on Government industrial undertakings.

The present investment in Central Government industrial and commercial enterprises—over 80 in number—is of the order of about Rs. 3,500 crores. Out of this, investment in the 55 running concerns (including Hindustan Steel Ltd.) accounts for nearly Rs. 3,200 crores. During 1967-68, 31 of these enterprises, however, showed a net profit of over Rs. 48 crores. The other enterprises, however, showed a net loss of Rs. 83 crores, resulting therefore in an overall net loss of Rs. 35 crores, after providing for depreciation, interest on loans from Government of India, the State Bank and other agencies and taxes.

The losses incurred were mainly those of Hindustan Steel Ltd., and four engineering enterprises—Heavy Engineering Corporation, Bharat Heavy Electricals Ltd., Heavy Electricals (India) Ltd. and Mining and Allied Machinery Corporation Ltd. On the other hand, substantial profits have been earned by Indian Oil Corporation Ltd., Hindustan Aeronautics Ltd., Fertilizer Corporation of India Ltd., Oil and Natural Gas Commission, Bharat Electronics Ltd. as well as about 25 other public undertakings.

ASHOKA HOTELS LIMITED

50-B, Chanakyapuri, New Delhi.

India's only 5-star de luxe hotel. It is fully airconditioned and has private swimming pool, refrigerator, telephone and bath for every room.

No. of rooms 491; No. of beds 798. The highest and lowest charge per day : Rs. 325 to Rs. 70.

ATOMIC REACTORS

(Trombay, Bombay 71)

(See under "Research")

BHARAT EARTH MOVERS LTD.

Hindustan Aircraft Post, Bangalore-17.

The Bharat Earth Movers Ltd. manufactures wheeled heavy earth moving equipment and broad gauge rail coaches of various types. The factory produces and

supplies to the Railway Board the modern integral type of rail coaches of various models in addition to parcel vans and postal vans. The company has so far added 200 machines to the earthmoving equipment fleet of the country. The factory also manufactures crawler tractor equipment and "Bharat" D80-8 tractors of 165 HP with about 35 per cent indigenous content.

BHARAT ELECTRONICS LTD.

Jalahalli P.O., Bangalore-13

(Under the Ministry of Defence)

BEL now produces over 70 different items of equipment which include transmitters of different powers with facilities for different modes of operation receivers, transreceivers, for static and mobile roles, multichannel equipment, single side band and independent side band equipment, etc. and measuring instruments and test instruments like Vacuum Tube Voltmeters, AF Oscillators, Audio & RF Output Power Meters, Cathode Ray Oscilloscope, Harmonic Generator, Electro-Cardiographs, and components like Radio Receiving Valves, Silicon and Germanium transistors and diodes transistors, Piezo Electric Crystals, Germanium Diodes, Mica & Ceramic Capacitors and Transmitting Tubes. Among the new items planned for manufacture in the Components Division are X-Ray Tubes and Magnetrons.

BEL also manufactures Radars primarily for military use. BEL's annual production for the year ending March 1968 was Rs. 15.84 crores. The factory employs 9,000 persons.

BHARAT HEAVY ELECTRICALS LTD.

Regd. Office : 5, Parliament Street, New Delhi-1.

The company has under it the following five units :—

(1) Ranipur Unit, Hardwar (U.P.); (2) Ramachandrapuram Unit, Hyderabad (A.P.); (3) Tiruverumbur Unit, Tiruchirapalli (Tamil Nadu); (4) Switchgear Unit, Hyderabad and (5) Central Foundry Forge Unit, Ranipur (U.P.).

The Ranipur Unit is designed to produce 1.5 million kW of steam turbines and turbo-alternators, 1.2 million kW of hydro turbines and generators of sizes upto 6,600 mm runner diameter and 0.5 million kW of medium and large sized AC and DC motors.

The Ramachandrapuram Unit is designed to manufacture steam turbines, turbo-alternators and certain power station auxiliaries like condensate pumps, feed water pumps and circulating water pumps. The output capacity planned is about 800 MW, comprising mainly unit sizes of 60 MW and 110 MW. This factory also manufactures turbo-blowers, turbo-compressors and back-pressure turbines for industrial use.

Tiruverumbur Unit will manufacture high pressure boilers complete with mills, high pressure fittings valves and other boiler house auxiliaries. The output in the first stage of development will be sufficient to match a power generating capacity of 750 MW. This factory also manufactures package boilers for industrial use.

The Switchgear Unit is designed to manufacture air blast circuit breakers of 132 kV, 220 kV and 400 kV sizes and also Oil minimum type contraction breakers in 25 kV, 33 kV, 66 kV and 132 kV ranges in collaboration with Messrs. ASEA of Sweden and has gone into production.

The Central Foundry Forge Plant is designed to meet the requirement of steel castings and steel forgings for the heavy electrical equipment plants at Hardwar, Bhopal, Hyderabad and Tiruchirappalli.

BHARAT HEAVY PLATE AND VESSELS LTD.

47-10-16A, Dwarakanagar, Visakhapatnam-4.

(Under the Ministry of Industrial Development and Company Affairs, Department of Industrial Development.)

The factory is expected to go into production by 1969.

The equipment proposed to be manufactured will include light, medium and heavy columns for absorption, distillation etc., tanks and pressure storage vessels, heat exchangers, pipe fabrication, vessels with agitators and mixer, technological structures etc.

BOKARO STEEL LTD.

Bokaro Steel City, Dt. Dhanbad (Bihar).

The Union Government is setting up its fourth steel plant in the public sector at Bokaro Steel City.

An agreement was signed on 25th January, 1965 between the Government of India and the Government of USSR for co-operation in the construction of an integrated iron and steel works at Bokaro.

The Bokaro Stage I will have a capacity for 1.7 million tonnes of steel ingots and 880,000 tonnes of foundry iron to be expanded to 4 million tonnes capacity in its second stage and with a few additional units to 5.5 million ton stage later. There is provision in the layout for further expansion of the plant to about 10-12 million tonnes if required in future. The first blast furnace is to be commissioned by September 1970 and the entire plant is due to be completed in December 1971. Bokaro Stage I is estimated to cost Rs. 671 crores.

The work on levelling of the plant site is almost complete. The civil engineering and structural steel work for the plant awarded at a cost of about Rs. 143 crores to another public sector undertaking, Messrs. Hindustan Steel works Construction Limited, commenced from October 1967, is in progress.

CHITTARANJAN LOCOMOTIVE WORKS

Head Office & Works: Chittaranjan, Dt. Burdwan, West Bengal.

Branch Office: 4, Chittaranjan Avenue, Calcutta-13.

Ownership & Control: Govt. of India, Ministry of Railways, Railway Board, New Delhi.

Products: Broad-Gauge steam and elec. locomotives and Diesel Shunters.

As part of the project for the manufacture of A.C. electric locomotives, the manufacture of major components such as Traction motors, smoothing reactors, silicon rectifiers, shunting contractors etc. has also been undertaken.

COCHIN REFINERIES LTD.

P. Bag 1751, Cochin-16.

Object: Construction of a complete modern petroleum refinery near Cochin in South India, with a design capacity to refine initially 50,000 barrels of crude oil each stream day and with an excess built in capacity upto 70,000 barrels a day.

DIESEL LOCOMOTIVE WORKS, VARANASI

The Diesel Locomotive Manufacturing Unit, styled as Diesel Locomotive Works manufactures the diesel engines, chassis or locomotive portion.

The indigenous content on the last main line diesel electric locomotive turned out by end of March 1968 is estimated to be 78.6%.

The main divisions of the Diesel Electric Locomotives are:—Chassis, Traction and Engine.

The other important departments of the Diesel Locomotive Works are: the Tool room, Heat treatment and Crome Plating, Quality Control, Laboratory, Maintenance and Training.

ELECTRONIC CORPORATION OF INDIA LTD.

3-5-822, Hyderguda, Hyderabad-1 (AP).

The Company is under the Department of Atomic Energy.

Main activities: To manufacture and sell electronic components and instruments and to fabricate and supply instrumentation and control equipment to various atomic power reactors and other nuclear plants. The important products of the Company are the various nuclear and allied instruments required for industrial, medical, agricultural and research purposes; carbon film and metal film resistors and tantalum capacitors, multi-turn potentiometers; semiconductor products like poly crystals, glass-to-metal seals, zener diodes, germanium power transistors, rectifiers, instrument fans and thermoelectric modules; servo control equipments and devices like synchros, motor drive assemblies, resistor temperature detectors, servo motors and manufacture of digital and analog computers for a wide variety of scientific application.

ENGINEERS INDIA LTD.

Allahabad Bank Bldg., 17-Parliament Street, New Delhi-1.

The company provides complete consultancy services in process design, engineering, procurement, construction supervision etc. for the public and private sectors, especially in petroleum, petro-chemical and industrial fields.

THE FERTILIZERS AND CHEMICALS, TRAVANCORE LTD.

Udyogamandal, Kerala.

The Fertilisers and Chemicals Travancore Limited, popularly known as FACT, produces ammonium sulphate

and, a variety of other products like ammonium phosphate, superphosphate, ammonium chloride, sulphuric acid, anhydrous ammonia, liquid sulphur dioxide, ultrafos, sodium fluoride, calcium silicate and synthetic cryolite.

The Company's factory at the Udyogamandal now has an annual production capacity of 70,000 tonnes of Nitrogen and 33,000 tonnes of P_2O_5 .

The new expansion activity of the company is in the form of setting up another Rs. 450 million fertilizer factory at Cochin with an annual production capacity of 330,000 tonnes of urea. This unit is expected to go into production in 1969.

At the end of the fourth stage programme which is expected to be completed by 1969, the factory will be producing 180,000 tonnes of ammonium phosphate 20:20 grade as against the present capacity of 35,000 tonnes of 16:20 grade.

The company has built a compact distribution organisation in Kerala with more than 2,000 selling points.

FERTILIZER CORPORATION OF INDIA LTD.

F-43, South Extension, Part I, Ring Road,
New Delhi-3.

(Under the Ministry of Petroleum and Chemicals)

The constituent units of the Corporation are the five operating fertilizer factories, namely, Sindri in Bihar, Nangal in Punjab, Trombay in Maharashtra, Gorakhpur in Uttar Pradesh and Namrup in Assam. They produce nitrogenous and phosphatic fertilizers.

Besides the five operating units there are two projects under implementation—Durgapur in West Bengal and Barauni in Bihar. After all the above projects are completed by 1971-72 FCI's production capacity for nitrogen will be over one million tonnes and P_2O_5 1.60 lakh tonnes.

Nangal: During 1967-68 this unit produced 77,665 tonnes of nitrogen.

Sindri: The production of fertilizers during the year 1967-68 was 79,435 tonnes in terms of nitrogen.

Trombay: The production of fertilizers in terms of Nitrogen and P_2O_5 went up at Trombay from 35,927 and 9,312 tonnes respectively in 1966-67 to 44,042 tonnes and 16,942 tonnes in 1967-68.

Namrup: The Namrup factory is designed to produce 45,000 tonnes of Nitrogen per year in the form of 1,00,000 tonnes of Ammonium Sulphate and 55,000 tonnes of Urea.

Gorakhpur: The Gorakhpur factory is designed to produce 80,000 tonnes of Nitrogen in the form of 1,73,920 tonnes of Urea per year.

Durgapur: The Durgapur fertilizer Project (1st Phase) is designed to produce 140,000 tonnes of nitrogen in the form of 305,000 tonnes of Urea per year. The factory is expected to go into production in 1969.

Barauni: The Barauni fertilizer factory has been designed to produce 151,800 tonnes of nitrogen in the form of 330,000 tonnes of Urea. It is expected to go into production in 1970-71.

GARDEN REACH WORKSHOPS LTD.

43/46, Garden Reach Road, Calcutta 24.

The Company has its main workshops at Garden Reach, and a branch unit at Baranagore, both in Calcutta.

The Company has 5 slipways and 2 dry docks. It is one of the major ship-building and ship-repairing yards

in India and is fully equipped to undertake all types of marine repairs to sea-going vessels as well as inland and harbour crafts. It builds all types of inland and harbour crafts and the smaller coastal vessels, and is specialising in the building of dredgers.

Garden Reach Workshops Ltd. also manufactures electrical overhead travelling cranes, deepwell turbine pumps, marine haulages and conveyors, air compressors and diesel road rollers.

The company now employs over 6,000 men. It has a well organised training scheme for apprentices.

HEAVY ELECTRICALS (INDIA) LTD.

(Piplani, Bhopal)

(Under the Ministry of Industrial Development and Company Affairs)

The factory manufactures the whole range of steam turbines, generators, condensers and feed heating equipment for thermal power stations, water turbines and generators for hydro power stations, butterfly valves for general hydraulic systems, power transformers and switchgear for sub-stations, electric traction equipment for freight and passenger trains, large A.C. and D.C. motors for cement factories, rolling mills, mines and other applications. The factory also manufactures industrial rectifiers, power capacitors and motor controlgear.

Services: The factory offers general engineering services in respect of thermal power stations, expertise in the sub-stations for 132 kV and 220 kV systems and also handles composite contracts in industrial and electrical drives for rolling mills.

Production: The factory procured equipment worth Rs. 23 crores in 1967-68.

HEAVY ENGINEERING CORPORATION LTD.

Administrative Building, Plant Plaza Road,
P.O. Dhurwa, Ranchi.

The Corporation is now engaged in establishing the following projects:—

1. Heavy Machine Building Plant at Ranchi in collaboration with U.S.S.R.; 2. Foundry Forge Plant and 3. Heavy Machine Tools Plant at Ranchi in collaboration with Czechoslovakia.

Heavy Machine Building Plant, Ranchi: The plant has a production capacity of 80,000 tonnes of machinery items and 25,000 tonnes of structural steel items per year.

The plant has produced over 14,600 tonnes of plant and equipment during 1967-68. HMBP has a programme of producing 30,000 tonnes during 1968-69.

Foundry Forge Plant: This plant will have the following production per year from its main production shops: Grey Iron Foundry (shaped castings) 33,345 tonnes; Steel Foundry (shaped castings) 40,182 tonnes; Non-Ferrous Foundry (castings) 700 tonnes; Forgings 50,000 tonnes; Grey Iron Steel and Forged Rolls 31,310 tonnes.

Heavy Machine Tools Plant, Ranchi: This plant will have an annual production capacity of 10,000 tons of certain diverse items of heavy machine tools.

The plant has gone into production of items like Radial Drilling Machines, Central Lathes, Double Column Planing Machines etc.

Training Programme: A comprehensive programme of training has been worked out. At Ranchi, the Corporation has set up a Central Training Institute, complete with workshop facilities, including foundry and smithy shop to provide training to workmen, supervisory staff and engineers.

HEAVY VEHICLES FACTORY

Avadi, Madras 54.

The Heavy Vehicles Factory is designed as an integrated unit for the manufacture of all major assemblies of the Tank including the engines, gear box and the suspension units.

The first Vijayanta medium Tank produced in this factory rolled out on 29-12-65 as scheduled.

HINDUSTAN AERONAUTICS LTD.

(Bangalore Division)

(Hindustan Aircraft P.O., Bangalore 17, Mysore)

Tel. & Cable address: "Aircraft", Bangalore.

Hindustan Aeronautics Ltd., is a combination of Hindustan Aircraft Ltd., and Aeronautics India Ltd. — a Company formed to undertake the MIG manufacturing projects at Koraput, Nasik and Hyderabad and also manages the Aircraft Manufacturing Depot, Kanpur.

This factory manufactures the following aircraft, HT-2 the All-Metal Basic Trainer Aircraft, Vampire Jet Aircraft, Gnat, HF-24 a supersonic fighter aircraft, Pushpak an ultra-light two-seater aircraft, Krishak a light four seater aircraft, Basic Jet Trainer HJT-16 a single engined aircraft for basic pilot training, HS-748 aircraft and HJE-2500 a turbo-jet engine for the Basic Jet Trainer aircraft. The first phase of producing helicopters has commenced.

Other Development Work: Other development work includes the design of a Pneumatic Starter for the starting of turbo-jet engines of 5,000/10,000 lbs. thrust range and installation of the Orpheus 701 engines as an auxiliary jet pack for the Fairchild Packet aircraft for high altitude flying.

HINDUSTAN ANTIBIOTICS LIMITED

(Pimpri, Poona-18)

(Under the Ministry of Petroleum and Chemicals).

Produces penicillin. The present capacity of production of penicillin is about 81 m.u.

The Streptomycin plant of 40 tons per annum produces Streptomycin salts.

A pilot plant for production of 1.5 tons of broad spectrum antibiotics of the Tetracycline group at a cost of Rs. 10 lakhs is now fully engaged on production of Chlortetracycline.

Another important development is the discovery of antifungal antibiotic Hamycin and other new antibiotics useful in plant disease control and veterinary practice by the Research Division of the company.

HINDUSTAN CABLES LTD.

(P.O. Hindustan Cables, Rupnarainpur Rly. Station), Burdwan Dt., West Bengal.

The company produces dry core distribution cables, coaxial cables and plastic group of cables and wires.

During 1967-68, the factory produced 0.64 million conductor Kms. of dry core distribution cables, 2,317 tube Kms. of 2 core and 4 core of large tube and small tube coaxial cables and 27,888 core Kms. of plastic group of cables.

HINDUSTAN HOUSING FACTORY LIMITED

(Jangpura, New Delhi 14)

(Under the Ministry of Works, Housing and Supply).

Main products of the Hindustan Housing Factory are as under:—

Prefabricated components for multistoreyed buildings; Prestressed concrete transmission line poles; Prestressed concrete street light poles; P.C.C. Beams for industrial sheds with sheeted roofs; P.C. assembled trusses for industrial sheds; P.C. Beams for composite constructions; Roofing and flooring components with prestressed concrete beams; Precast R.C.C. cladding panels; Precast prestressed units for fencing posts; R.C.C. door and window frames; Hollow blocks for roofing; Hollow blocks for walling; Overhead concrete tanks for residential uses; Large panels for large panel house construction; Precast concrete flooring slabs; Prestressed concrete railway sleepers; R.C.C. railway sleepers; Precast vibrated pipes for drains; Precast vibrated Porous Pipes; Reinforced foam concrete panels; Foam concrete blocks for cold storage and air-conditioned buildings; Foam concrete blocks for multistoreyed buildings; Machine-made doors and window frames and shutters; Flush doors; Seasoning and chemical treatment of timber.

Production during 1967-68 was Rs. 180 lakhs.

HINDUSTAN INSECTICIDES LIMITED

Regd. Office: C-255, Defence Colony, New Delhi-3.

The Company operates two DDT manufacturing plants in the country — one situated at New Delhi and the other at Alwaye in Kerala State. Present annual rated capacity of each of the two factories at Delhi and Alwaye is approximately 1,400 tonnes.

Both these factories are provided with formulating units capable of converting DDT into water-dispersible powder.

A number of by-products — Hydrochloric Acid, Sulphuric Acid, Ortho D.C.B., Para D.C.B., Ethyl Chloride are being manufactured.

Production of technical D.D.T. during 1967-68 was 3,102 tonnes.

HINDUSTAN LATEX LIMITED

Nirodh Project, Peroorkada, Trivandrum 5.

Registered Office: Room No. 243, Nirmal Bhavan, Maulana Azad Road, New Delhi.

(Under the Ministry of Health and Family Planning).

The company has been established for the manufacture of "Nirodh" in India. A Contraceptives (Nirodh) Plant for the manufacture of 3,000 gross nirodhs per day is under erection and is expected to commence regular production from early 1969.

HINDUSTAN MACHINE TOOLS LIMITED

(H.M.T. P.O., Bangalore 31).

(Under the Ministry of Industrial Development and Company Affairs, Govt. of India).

This is located in Jalahalli, Bangalore, with five machine tool factories at: (I & II) Bangalore in Mysore; (III) Pinjore in Haryana; (IV) Kalamassery in Kerala and (V) Hyderabad in Andhra Pradesh and one watch factory in Bangalore.

The factory produces a wide range of machine tools like Milling Machines, Radial Drilling Machines, General Purpose Lathes, Turret Lathes, Grinding Machines, Special Purpose Machines, all Electric Heavy Duty

Programme Controlled Milling Machines, Gear Shapers, Gear Hobbing Machines, Single Spindle Automatics, Surface Grinders, Pilote Copying Lathes, "Fay" Automatics, Multi-Spindle Bar and Chucking Automatics, Drum Turret Lathes and Horizontal Boring Machines.

The Company employs 12,037 skilled and semi-skilled workers (in all its factories).

Till the end of March 1968, the factory turned out 16,498 machines valued at Rs. 76.31 crores.

Production during 1967-68 by the various factories at : Pinjore in Haryana : 402 machines valued at Rs. 2.06 crores ; Kalamassery in Kerala : 416 machines valued at Rs. 2.15 crores ; Hyderabad in Andhra Pradesh : 66 machines valued at Rs. 2.22 crores.

Export

During 1967-68 HMT exported 82 machines valued at Rs. 29.28 lakhs as against 76 machines valued at Rs. 30.12 lakhs in 1966-67. HMT has opened sales-cum-service centres in New York, Frankfurt, Melbourne and Los Angeles and few more are likely to be opened in the near future.

New Designs

HMT has designed and developed six new machines namely (G9) Cylindrical Grinding Machine, (GT) Tool Grinding and Lapping Machine, (G. 13) Cylindrical Grinding Machine, (L. 45) Heavy Duty Lathe, (FB) Fine Boring Machine, and (Chucker) Short Piece Turning Machine. HMT has been continuously striving to develop the existing machine tools and to design new one.

Training

HMT has its own training centres where training is offered in the following trades : (1) Highly skilled operators, fitters, turners, millers, grinders, and (2) Reconditioning of machine tools and preventive maintenance.

Watch Factory

The HMT Watch Factory in Bangalore, turned out 3,00,000 watches during 1968-69 against 2.50 lakh watches in 1967-68. It currently produces seven types of watches — six varieties of Gents' watches, viz., Citizen, Janata, Janata Luminous, Pilot, Sonar and Tarun; and one variety of Ladies' watch viz., Sujata. The Sonar is meant for export and the Pilot is meant for flying personnel. The factory now produces the date watch — HMT Tareekh.

Upto end of March 1968, over 2,000 watches have been exported. The factory sold 3.02 lakh watches in 1968-69 against 2.46 lakh watches in 1967-68.

HINDUSTAN ORGANIC CHEMICALS LTD.

P.O. Rasayani, Dist. Kolaba, Maharashtra.

(Under the Ministry of Petroleum and Chemicals.)

The company's production programme includes a number of organic intermediates like Benzene Hexachloride, Chlorobenzene, Formaldehyde, Aniline, Meta-Amino-Phenol, Acetanilide and a range of Nitro Compounds based on Benzene and Toluene. The manufacture of Sulphuric Acid/Oleum and Hydrogen is also envisaged.

HINDUSTAN PHOTO FILMS MFG. CO. LTD.

Indu Nagar, Ootacamund.

The factory manufactures various types of sensitized photographic materials.

When the factory goes into full production, it is expected to turn out annually 6.15 million sq. m. of photographic film and photographic paper. As an adjunct to the main plant, a Silver Nitrate Plant for producing Silver

Nitrate, a Silver Sludge Recovery plant for recovery of silver from factory wastes, and a unit for synthesizing organic chemicals, which constitute some of the important raw materials for the plant, have also been set up.

The value of sales during the year 1967-68 was Rs. 88.63 lakhs. It has already established production in Cine film positive, medical X-ray film, Bromide Paper and some negative materials.

HINDUSTAN SALTS LTD.

Badnor House, Bhagwan Das Road,
P. Box No. 146, Jaipur.

(Under the Ministry of Industrial Development & Company Affairs)

The salt source at Kharaghoda (Gujarat) and the salt mines at Mandi (Himachal Pradesh) are under the administrative control of the Company.

Production during the fiscal year ending 30th September, 1968, are as follows :—

Common Salt 69,706 M. Tonnes ; Rock and Pan Salt 3,157 M. Tonnes.

The Sambhar Salts Ltd., a subsidiary of Hindustan Salts Ltd., produced 2,12,000 tonnes of salt during the fiscal year ending September 1968.

HINDUSTAN SHIPYARD LIMITED

(Visakhapatnam 5, Andhra Pradesh)

(Under the Ministry of Transport and Shipping)

The shipyard has four building berths with a capacity of 15,000 DWT each, besides a fifth berth for the construction of minor craft. The capacity of the dry dock now under construction will be 57,000 DWT.

Hindustan Shipyards has so far built 47 ships of different sizes and types aggregating more than 3,87,000 DWT.

The second shipyard would be located in Cochin.

The names of ships built by Hindustan Shipyards and of the companies to which they were sold. The figures within brackets show the dead weight tonnage : 1. "Jala Usha" (8,000); 2. "Jala Prabha" (8,000); 3. "Kutubtari" (245); 4. "Jalaparakash" (8,000); 5. "Jalapankhi" (8,000); 6. "Jalapadma" (8,000); 7. "Jalapalaka" (8,000); 8. "Jalapratap" (8,000); 9. "Jalapushpa" (8,000); 10. "Jalaputra" (8,000); 11. "Jalavihar" (7,000); 12. "Jalavijaya" (7,000); 13. "Jalavishnu" (7,000); 14. "Jalavikram" (7,000); 15. "Jalaveera" (7,000); 16. "Jalakala" (12,300); 17. "Jalakendra" (12,300); 18. "Jalakanta" (12,300); Scindia Steam Navigation Co. Ltd. 19. "Bharatmitra" (8,000); 20. "Bharatratna" (8,000); Bharat Line Ltd. 21. "Jagrani" (8,000); Great Eastern Shipping; 22. "Rajkumar" (6,000); Great Eastern Shipping Corporation; 23. "State of Kutch" (8,000); 24. "State of Orissa" (8,000); 25. "State of Uttar Pradesh" (9,500); 26. "State of Rajasthan" (9,500); 27. "Vishwa Nidhi" (9,500); 28. "State of Punjab" (12,300); 29. "Vishvashanti" (12,300); 30. "Vishva Prem" (12,300); 31. "Vishva Maya" (12,300); 32. "Vishva Mangal" (12,300); 33. "State of Madhya Pradesh"; 34. "State of West Bengal"; 35. "State of Mysore"; Shipping Corporation of India; 36. Adyar (Kost Nozzle Tug) (242); Madras Port Trust; 37. "Andamans" (4,000); Government of India Home Ministry; 38. "Vidyut (M.L.)"; Madras Central Excise; 39. "Indian Industry"; India Steamship Co.; 40. "Dhruvak" (500); 41. I.N.S. "Darshak"; Indian Navy; 42. "Jayalakshmi" (5,000); New Dholera Steamship Co. Ltd.; 43. "R.S.V. Haldia"; Calcutta Port Commissioner; 44. "Vishva Tej"; 45. "Vishva Tirth"; 46. "Vishva Seva"; 47. "Vishva Siddhi" (12,300).

HINDUSTAN STEEL LIMITED

P. O. Hinoo, Ranchi.

(Under the Ministry of Steel, Mines and Metals)

Hindustan Steel Ltd. has four steel plants the Rourkela Steel Plant, Bhilai Steel Plant, Durgapur Steel Plant and Alloy Steels Plant the last one not being completed.

Production : During the year 1967-68 production of the important items is given below :—

(In thousand tonnes)

Product	Bhilai	Durgapur	Rourkela	H.S.L.	Alloy Steels
Pig Iron ..	2,080	959	936	3,975	nil
Ingots ..	1,785	738	924	3,447	13.8
Saleable Steel ..	1,252	527	640	2,419	6.6*
C.A.N. ..	..	..	190	190	..

* Out of this 2.7 is forged bars and billets and 3.9 are rolled bars and billets.

Central Engineering & Design Bureau : The Central Engineering & Design Bureau is a full-fledged design and consultancy organisation equipped to undertake planning and designing of ferrous and non-ferrous plants. The CEDB has successfully completed the planning, designing and engineering of 1.8 million tonne expansion of Rourkela and 1.6 million tonne expansion of Durgapur Steel Plants, saving the country Rs. 53.7 million in foreign exchange.

Hindustan Steel has on its rolls 1,19,234 employees.

Rourkela Steel Plant : The plant, situated at Rourkela in Orissa, was set up with financial and technical help from West Germany.

When fully commissioned and has reached its full rated capacity the plant will produce 1.8 million tonnes of ingot steel which will be rolled into 280,000 tonnes of wide and heavy plates, 300,000 tonnes of medium plates and wide strips (hot rolled), 300,000 tonnes of sheets & strips (cold rolled), 50,000 tonnes of tin plates, 100,000 tonnes of electrolytic tin plates, 160,000 tonnes of galvanised sheets and 50,000 tonnes of electrical steel sheets, totalling 1,240,000 tonnes of saleable steel. In addition to the different flat products, ERW (Electric Resistance Welding) pipes of diameter ranging from 8½" to 20" are produced in the Rourkela Pipe Plant. The main by-products from this steel plant coke ovens are benzol, toluene, xylene, solvent naphtha, creosote oil, wash oil, anthracene oil, naphthalene, crude anthracene and crude phenol. Besides, there is a Rourkela Fertilizer plant belonging to Rourkela Steel Plant, which has an annual capacity of 580,000 tonnes of calcium ammonium nitrate.

One of the new products is the cold rolled grain oriented silicon sheets.

Bhilai Steel Plant : Bhilai Steel Plant was set up in Bhilai in Madhya Pradesh with the help of Russian financial and technical help. It has 2.5 million tonnes ingot steel capacity.

The Steel Plant now comprises six batteries of coke ovens of 65 ovens each, one sintering plant with three machines, five blast furnaces, three with 1,135 tonnes each and two with 1,738 tonnes each, of pig iron capacity, six open hearth furnaces of 250 tonnes capacity each, five open hearth furnaces of 500 tonnes capacity each, one blooming mill, one billet mill, one rail and structural mill, one merchant mill and one wire-rod mill.

Saleable production targets of Bhilai Steel Plant under the 2.5 million tonne scheme are : Rails (standard gauge) 500,000 tonnes, Rails (narrow gauge) 20,000 tonnes,

Heavy Structural 386,000 tonnes, Crossing Sleepers 82,000 tonnes, Rounds, Squares and Flats 261,000 tonnes, Billets 315,000 tonnes and Coiled Wire and other products 400,000 tonnes and 317,000 tonnes of pig iron for sale.

Durgapur Steel Plant : Built with financial and technical aid from the United Kingdom, in West Bengal. The plant has now a capacity of 1.6 million tonne ingots and comprises one coal washery with 360 tonnes raw coal per hour, four batteries of coke ovens with 78 ovens each, sinter plant with two sintering machines, four blast furnaces, three of them with 1,270 tonnes of pig iron capacity per day and one with 1,500 tonnes capacity per day, eight open hearth furnaces each with 220 tonnes ingot steel capacity and one open hearth furnace with 110 tonnes ingot steel capacity, one primary blooming mill, one intermediate blooming mill, one billet-cum-sleeper bar mill, one medium section mill, one merchant mill, one sleeper plant, one wheel and axle plant and one skelp mill.

Alloy Steel Plant : The Fourth Steel Plant of the company—Alloy Steel Project in Durgapur—is under construction with Japanese and Canadian technical and financial assistance.

The plant will have an initial capacity of 100,000 tonnes of ingots capable of expansion to 300,000 tonnes of ingots per year. The initial 100,000 tonnes of ingots will be rolled into 60,000 tonnes of steel products. The product-mix of the plant will be High Speed Steel 2,250 tonnes, Carbon tool steel 9,500 tonnes, Alloy tool & die steel 3,600 tonnes, constructional steels 26,650 tonnes and Stainless steel 18,000 tonnes.

All the major units have been commissioned and one is in operation.

Coal Washeries : The company has four coal washeries at Dugda, Bhojudih and Patherdih. Dugda is 30 miles and Patherdih 10 miles from Dhanbad, in Bihar. Bhojudih, in West Bengal, is about 20 miles from Dhanbad. Dugda I Washery had a capacity of 2.4 million tonnes of raw coal input per year, Bhojudih two million tonnes of raw coal input and Patherdih two million tonnes of raw coal. Dugda II has been commissioned with a capacity of 2.4 million tonnes. These coal washeries supply washed coal to Bhilai and Rourkela Steel Plants and to TISCO & IISCO Steel Plants.

Sales : Gross sales, amounted to Rs. 2,517 million in 1967-68.

The value of exports rose from Rs. 93.5 million in 1966-67 to Rs. 309.6 million in 1967-68. Exports during 1967-68 comprised shipments of 520,500 tonnes of pig iron mainly to Japan, 275,300 tonnes of steel, 9,400 tonnes of ingot moulds and 934 tonnes of coke oven by-products, 13,600 tonnes of API pipes to New Zealand, 600,000 angles, beams and channels to the USSR over three years ending December 1970, more than 40,000 tonnes of rails to Malaysia, the Ghana, the Sudan, Iran and Turkey and a long-term contract for export of 80,000 tonnes of billets to Ceylon.

HSL has branch sales offices and stockyards in Calcutta, Delhi, Bombay, Madras, Cochin, Bangalore, Ahmedabad, Secunderabad, Kanpur and Jullunder. HSL has a branch office at Apollo House, 58 New Bond Street, London W1.

THE HINDUSTAN TELEPRINTERS LTD.

Guindy, Madras-32.

The factory manufactures tape and page models of teleprinters, printing reperforator attachment, transmitter attachment, independent automatic tape transmitter and Devnagari teleprinters. It produced 3,504 unit machines in the year 1967-68.

HINDUSTAN ZINC LIMITED

(Under the Ministry of Steel, Mines and Metals)

11/221, Hospital Road, Udaipur (Rajasthan).

The units administered by this Company are: (i) the Zawar Mines. At present the mine production is about 500 tonnes of ore containing both lead and zinc. The ore is processed in a ball mill to produce 5,000 M.T. of lead concentrates and 10,000 tonnes of zinc concentrates annually. (ii) Tundoo Lead Smelter near Katrasgarh, Dhanbad with a capacity to produce 500 M.T. of pig lead per month. The lead concentrates from Zawar Mines are smelted here to produce pig lead of 99.99 per cent purity. A little quantity of silver is recovered as by-product. (iii) An electrolytic Zinc Smelter, has been commissioned at Debari. The Zinc Smelter has been designed to produce 18,000 tonnes of zinc metal, about 29,000 tonnes of sulphuric acid to be converted into 80,000 tonnes of single superphosphate fertilizer and 70 to 75 tonnes of cadmium to be recovered as by-product annually.

INDIA GOVERNMENT SILVER REFINERY

(Ministry of Finance, Dept. of Economic Affairs)

47, Strand Road, Calcutta 7.

This refinery has been installed for the extraction of silver and copper from the Q.A. coins minted during the World War II. Nickel Sulphate and Nickel Silver (an alloy of Cu, Ni, and Zn) are obtained as by-products. The refinery employs 488 persons.

THE INDIAN DRUGS AND PHARMACEUTICALS LTD.N-12 & 13, South Extension (Part I), Ring Road,
New Delhi-3.

(Under the Ministry of Petroleum and Chemicals)

The Indian Drugs & Pharmaceuticals Ltd. has been set up for the manufacture of and trading in drugs, antibiotics surgical instruments and appliances. It has three plants under its control, Antibiotics Plant at Rishikesh, Synthetic Drugs Plant at Hyderabad and Surgical Instruments Plant at Madras. The plants have been set-up with the help of the Government of U.S.S.R. The company and plants have 6,500 employees.

Antibiotics Plant at Rishikesh (Uttar Pradesh): Estimated to cost Rs. 26 crores. An annual production of 300 tonnes of antibiotics as sodium penicillin, procaine penicillin, streptomycin dihydrostreptomycin, tetracycline, chlortetracycline, oxy-tetracycline and nistatin is expected from this project. The Plant produced sodium penicillin, procaine penicillin and streptomycin during the year 1967-68.

Synthetic Drugs Plant at Hyderabad (Andhra Pradesh): Estimated to cost Rs. 23 crores. Annual production capacity of 826 tonnes of sulpha drugs, anti-T.B. and antipyretic drugs, vitamins etc. The plant produced four products during 1967-68. It has achieved stability of production in Phenacetin, Sulphonamides, Analgin, Piperazine Salt and Hydrazine Hydrate.

Surgical Instruments Plant, Madras: The plant produced 79,193 instruments during 1967-68 and sold 73,188 instruments. The exports were worth Rs. 1.03 lakhs. Company has appointed agents in eight foreign countries for sale of instruments.

INDIAN OIL CORPORATION LIMITEDRegd. Office : 254-C, Dr. Annie Besant Road, Prabhadevi,
Bombay-25 DD.

The Indian Oil Corporation comprises two divisions viz. Refineries Division and Marketing Division.

Indian Oil Corporation, Refineries Division, Link House, Bahadur Shah Zafar Marg, New Delhi is responsible for the management of the three public sector Refineries at Gauhati in Assam, Barauni in Bihar and Jawaharnagar in Gujarat. Another refinery is under construction at Halidia near Calcutta.

Marketing Division with its headquarters in Bombay is responsible for distribution of petroleum products all over the country.

INDIAN RARE EARTHS LIMITED

Pil Court, 111, Maharsi Karve Road, Bombay 20.

This Company functions under the administrative control of the Department of Atomic Energy.

(1) The Rare Earths Plant of the Company at Alwaye can process 3,600 tonnes of monazite per annum to produce rare earths chloride, thorium hydroxide and trisodium phosphate. Cerium oxides rare earth fluoride and cerium naphthenate are also produced in small quantities.

(2) The Company also separates ilmenite, rutile, zircon, monazite and garnet from beach sands. It has a 300 tonnes/day plant at Manavalakurichi (Tamil Nadu). This plant functions under the Minerals Division of the Company with its office at Quilon.

(3) The Company also operates the Thorium Plant of the Government of India at Bombay where thorium compounds are manufactured from thorium hydroxide obtained at the Alwaye Plant.

INDIAN TELEPHONE INDUSTRIES LIMITED(Under the administration and jurisdiction of Dept. of
Communications, Govt. of India).

(Dooravani Nagar, Bangalore 16, Mysore State)

Railway Station : Krishnarajapuram
(Southern Railway)

Regional Offices, Sales & Service: "Advent", 62/63, 12-A, Foreshore Road, Bombay 1; 22, Chittaranjan Avenue, United India Life Assurance Bldgs., Calcutta 13; 12-B, Netaji Subhash Marg, Daryaganj, Delhi 6; Agurchand Mansions, No. 35, Mount Road, Madras 2.

Shipping and Clearing Office: III Floor, 32/33, Linghi Chetty, Street, Madras-1.

The factory manufactures all kinds of telecommunication equipment, all kinds of telephones, transmission equipment, testing equipment, automatic road signalling equipment, etc.

Production:—During the year, the main items of exchange equipment produced included 232,284 telephones, and 1,72,000 exchange lines of Strowger type and 35,000 lines of Crossbar type. The Transmission Division produced, 1,516 VFT channels, 170 3-channel group terminals (transistorised), 116 8-channel terminals (transistorised), 300 12-channel group terminals, 112 stackable channels, 226 co-axial line equipment, 411 group and super group translating equipment (groups), besides Railway Control equipment and Defence equipment.

ITI has also developed a field telephone, a wall telephone, a new induction coil for telephone instruments and a new telephone instrument (type 681).

Among the new instrument developed are the Impulsograph, Frequency Counter, Level Meter, Wide Band Extra High Tension generator, 600 K c/s transistorised selective level meter and 600 K c/s oscillator.

Exports during the year 1967-68 amounted to Rs. 51.36 lakhs.

INSTRUMENTATION LTD.

(Ministry of Industrial Development & Co. Affairs.)
Kota-Jhalawar Road, Kota (Rajasthan)

The company produces industrial process control instruments comprising a variety of transmitters, indicating and controlling pyrometers, single and multi-point electronic recorders for measurement of temperature, pressure, flow, level and other process variables.

The company also provides complete turn key service for thermal power stations, steel plants, fertilizer plants and other process industries.

INTEGRAL COACH FACTORY

Perambur, Madras 38.
(Under the Ministry of Railways)

The factory consisting of two divisions, Shell & Furnishing, meets the requirements of passenger coaches of the Indian Railways. During 1967-68, 642 shells were manufactured and 700 coaches furnished, consisting of various types.

The design of the coach turned out is of the Integral type.

Up to the end of March 1968, 6,084 shells have been turned out and 4,115 coaches furnished. The factory produces diesel rail cars and air-conditioned stock, in addition to conventional III Class, I Class and Sleeper Coaches, both Broad and Metre Gauges. The annual turnover of the factory has now reached 15 crores mark. The total number of employees on rolls is 10,600.

JANPATH HOTELS LIMITED

New Delhi.

The Company manages three hotels in Delhi viz., Hotel Janpath, Hotel Ranjit and Lodhi Hotel with a room capacity of 222, 216 and 224 respectively.

JAYANTI SHIPPING COMPANY LTD.

Regd. Office: Rehem Mansion No. 1, 42, Colaba Causeway, Bombay-1.

Mg. Agents: The Shipping Corporation of India Ltd., Steelcrete House, 4th floor, Dinshaw Wacha Road, Bombay-10 BR.

Agents: Throughout the world.

Jayanti Fleet

Tankers (in DWT): Adi Jayanti 33,099, Vikram Jayanti 57,588; *Cargo Ships (in DWT):* Ashoka Jayanti 10,030, Gandhi Jayanti 10,920, Krishna Jayanti 11,050, Laxmi Jayanti 10,050, Rama Jayanti 10,960.; *Bulk Carriers (in DWT):* Bharata Jayanti 36,496, Gotama Jayanti 36,416, Akbar Jayanti 36,471, Chandragupta Jayanti 36,504, Shahjehan Jayanti 36,478, Kanishka Jayanti 36,528, Devaraya Jayanti 36,491, Samudragupta Jayanti 36,464. *Combined Oil/Ore Carriers (in DWT):* Bhaskara Jayanti 21,594, Leelavati Jayanti 21,615, Chanakya Jayanti 21,594.

Total (DWT): 5,00,348 LT.

KOLAR GOLD MINING UNDERTAKINGS

Kolar Gold Fields, Oorgaum P.O., Mysore State.

Is now under the administrative control of the Department of Economic Affairs, Ministry of Finance, Government of India. The mines working at present are: Mysore/Champion Reef Amalgamated Mine and Nundydroog Mine.

No. of workmen: About 13,200.

The gold production during 1967-68 was 23,45,416 grammes worth Rs. 198.60 lakhs.

MACHINE-TOOL PROTOTYPE FACTORY, AMBERNATH

(Under the Ministry of Defence)

MAZAGON DOCK LIMITED

Mazagon, Bombay 10.
(Under the Ministry of Defence)

It is fully equipped to carry out all types of repairs to all kinds of ships like passenger ships, tankers and cargo ships and maintains a round the clock, 7 days-a-week repair service.

Mazagon Dock Limited has three dry docks— Ritchie, Mogul and Mazagon.

Besides the three dry docks, Mazagon Dock has converted the tidal Kasara Basin into an impounded wet dock. It can take 3 to 4 medium-size ships for repair/fitting out.

Mazagon Dock has six building berths— four open and two covered. The Company can now undertake the construction of large ocean-going vessels of 15,000 DWT.

The first Leander class anti-submarine frigate being built by Mazagon Dock was launched in October 1968. The Company has already started the construction of the second frigate.

The company also undertakes steel fabrication work, ferrous and non-ferrous foundry work, steel forgings and automobile work, all types of timber construction and general engineering work.

Mazagon Dock manufactures liquified petroleum gas tanks of ten ton capacity and also both horizontal and vertical MAZDOCK Crude Oil Cold Starting engines with horse power ranging between six and twenty.

The total turnover of the Company has increased from Rs. 501.27 lakhs in 1966-67 to Rs. 692.84 lakhs in 1967-68.

MODERN BAKERIES (INDIA) LIMITED

Registered Office: B-33, North Extension Area, Karol Bagh, New Delhi 5.

The company has six modern automatic bakeries at Ahmedabad, Bombay, Calcutta, Cochin, Delhi and Madras. The capacity of each will be 35,000 loaves of 400 gms. per day except those of Bombay and Calcutta where the rated capacity would be 70,000 loaves per day. All except the Calcutta unit have gone into production. The company is setting up similar units at Bangalore, Hyderabad and Kanpur.

THE MOGUL LINE LTD.

16, Bank Street, Bombay 1.

Pilgrim Booking Office: Nos. 4 & 5, Mahomed Haji Saboo Siddick Musafirkhana, Carnac Road, Bombay 1.

Regular Passenger-cum-Cargo service from Bombay to Aden and Red Sea ports & regular Indian coastal service for transport of coal, salt, cement etc. A special Pilgrim Service is arranged between Bombay and Jeddah during Haj season every year.

NAHAN FOUNDRY

(Nahan, Sirmur District, Himachal Pradesh).

Production consists of improved type of cane crushers, bullock as well as power driven, mono-block pumps, electric motors from $\frac{1}{4}$ H.P. to 15 H.P. of ISI certification

mark in large number, improved types of ploughs, corn-sheller machines; harrows; and other miscellaneous items. The Foundry undertakes quality casting work for P. & T., D.G.S. & D., Public Health and Railways.

NATIONAL INSTRUMENTS LTD.

(1/1, Raja Subodh Mullick Road, Jadavpur, Calcutta 32).

(Under the Ministry of Industrial Development & Company Affairs.)

This Company manufactures and repairs at its Instruments Plant at Jadavpur, Calcutta, precision instruments such as Survey Instruments, Drawing Office Equipment, Optical Instruments such as Microscopes & Binoculars, Vision Sighting Equipment of various types, Medical Instruments such as Ophthalmoscope & Sphygmomanometer, Measuring Instruments such as Pressure and Vacuum Gauges and a variety of other precision instruments.

The Company's Ophthalmic Glass Plant at Durgapur produces 300 tonnes of Ophthalmic Glass Blanks.

The Company has provided training facilities under the Apprenticeship Act.

The Instruments Plant at Jadavpur has taken up a modernisation and diversification production programme to produce a sophisticated range of products now being imported like one Second Theodolite, Automatic Level etc.

NEYVELI LIGNITE CORPORATION LTD.

(Ministry of Steel, Mines & Metals, Government of India). Neyveli 1, South Arcot Dist.

This is a Rs. 170-crore Project. The Integrated Project envisages the mining ultimately of 6.3 million tonnes of lignite per annum, the present rate being 4.5 million tonnes per annum.

The lignite is utilised for (a) the generation of power in a Thermal Power Station, (b) the production of Urea with a nitrogen content of 46 per cent in a Fertilizer Factory of capacity 1,52,000 tonnes of Urea per annum, and (c) manufacture of 3,27,000 tonnes of carbonised briquettes from lignite per annum in a Briquetting & Carbonisation Plant.

The following tar products are also produced in the B & C Plant: Tar, Neutral Oil, Carbolic Acid (Phenol), Ortho Cresol, Meta-Para Cresols, Xylenols and Polyvalent Phenols.

Upto 31st March 1968, about 116 lakh tonnes of lignite has been raised and about 6,930 M.Kwhrs. of power generated.

OPTICAL GLASS

Central Glass and Ceramic Research Institute, Calcutta 32.

This factory produces the major types of optical glass required in the country.

PYRITES AND CHEMICALS DEVELOPMENT CO., LTD.

Registered Office: Dr. Joseph House, Canal Road, Dehri-on-Sone, Dist. Shahabad, Bihar.

Branch Offices: (i) Mining Project, P.O. Amjhore, Dist. Shahabad, Bihar. (ii) Office of the Resident Representative, N-5, South Extension, Part-I, New Delhi-3.

(iii) Office of the Assistant Purchase Officer, No. 9, Syed Amir Ali Avenue, Fourth Floor, Calcutta-17.

Objects: Raising, assembling and transporting of pyrites and phosphates ores in such areas in India and elsewhere as the Company may from time to time determine for the purpose of sale or use or for the manufacture of sulphur, sulphuric acid and any other bye products out of pyrites ore and for manufacture of phosphate and allied fertilizer minerals.

Activities: Investigation, Planning, Exploitation and mining programme of pyrites and rock phosphates.

Reserves and Mining Programme: *Pyrites:* The mines at Amjhore have already started production and more than 11,000 tonnes have been despatched to Sindhri. The programme is to produce annually 2.4 lakh tonnes of pyrites ore.

It has been decided by the Government of India to entrust to this Company the exploitation of pyrites deposits in Saladipura, Rajasthan and of the recently found rock-phosphate deposits in Rajasthan and in Maldeota, U.P.

RAJASTHAN ATOMIC POWER PROJECT

(See under "Research")

SHIPPING CORPORATION OF INDIA LIMITED

Registered Office: "Steelcrete House", Dinshaw Wacha Road, Bombay-20 BR.

Branch Offices: CALCUTTA: Nilhat House, 11, R. N. Mukherjee Road, Calcutta-1.

MOMBASA: Renmar House, Kilindini Road, Mombasa. Chairman & Managing Director: C. P. Srivastava, IAS.

Number of vessels: Cargo vessels 46, passenger-cum-cargo 4, bulk carriers 3, timber carrier 1, bulk coal carriers 3, tankers 5, Total 62.

Total G.R.T.: 5.59 lakhs, D.W.T. 8.18 lakhs.

Services: Passenger-cum-cargo services from India (1) East Africa (2) Malaysia & Singapore (3) Ceylon and (4) Calcutta-Madras to Andaman & Nicobar Islands.

Cargo Services: From India to U.S.A. (Atlantic & Pacific Coasts), Canada (Pacific Coast), U.K., Continent; Poland; U.S.S.R.; U.A.R.; Australia; Japan; West Asia (Gulf and Red Sea).

Tanker Services on coastal and overseas trades, Colliers on Indian Coast.

TARAPUR ATOMIC POWER PROJECT

(See under "Research")

WASHERIES

The Durgapur washery which is an integral part of the Durgapur Steel Plant, has an input capacity of 1.5 million tonnes of raw coal per annum. The three Hindustan Steel Ltd. washeries at Dugda, Bhojudih and Patherdih have input capacities of 2.40, 2.00 and 2.00 million tonnes respectively and the Kargali washery of the National Coal Development Corporation has an input capacity of 2.72 million tonnes per annum. Dugda II Washery with raw coal input capacity of 2.40 million tonnes has been completed. Washerries at Kathara, Gidi (Karanpura) and Sawang with input capacities of 3.00, 2.84 and 0.75 million tonnes of raw coal per annum respectively are nearing completion.

STATE-OWNED OR STATE-AIDED

ANDHRA PRADESH

THE ANDHRA PAPER MILLS LTD.

(Rajahmundry).

Head Office : Shreenivas House, Waudby Road, Bombay 1.

The present production capacity is 70 tons per day. The production of the Mills is confined to writing, printing, off-set printing, map litho, pulp board, kraft, poster and other quality papers.

GOVERNMENT CERAMIC FACTORY

(Gudur, Nellore Dist.)

The factory produces sanitaryware and low tension electrical insulators. During the year 1967-68 the production was 4.47 lakh kgs. valued at Rs. 5.72 lakhs.

HYDERABAD TANNERIES LTD.

(Hyderabad)

The factory does the tanning of cow and buff hides, sheep skins and goat skins. Export of tanned hides and skins is also done.

NIZAM SUGAR FACTORY LTD.

The Nizam Sugar Factory is the largest single sugar producing unit in the country.

PRAGA TOOLS LIMITED

6-6-8/32, Kavadiguda Road, Secunderabad 3.

The Company produces machine tools and allied accessories, precision tools, forgings for auto and diesel spares and rail-road components, defence items, etc.

SINGARENI COLLIERIES

Coal is mined in the State by the Singareni Collieries Co. Ltd. from the coal fields at Kothagudem, Yellandu, Rudrampur, Belampalli, Mandamari, Ramakrishnapur and Ramagundam.

Production of coal during 1967-68 was 40.95 lakh tonnes as against 41.78 lakh tonnes in 1966-67.

ASSAM

ASEB METER WORKS

Short Round Road, Shillong.

A Rs. 60 lakhs factory, an Assam State Electricity Board enterprise, manufactures single phase house service KWH metres and polyphase metres. It went into production in Jan. 1962.

ASSAM CEMENTS LIMITED

Cherrapunjee, Assam.

The Company has set up its factory at Cherrapunjee for manufacture of Portland Cement with a capacity of 250 tonnes per day.

ASSAM GAS COMPANY LTD.

Shillong (Assam).

Aims and Objects : Utilisation of natural gas available from the Oil and gas fields in Assam as feed stock for petrochemical industries and as industrial and domestic fuel. Distribution of liquified petroleum gas for domestic and laboratory fuel.

Present Activity : Extension of the existing 14" diameter Namrup-Naharkatiya pipeline to Duliajan and installation of the Gas Compressor Station at Duliajan. Another

8" diameter pipeline parallel to the existing 8" diameter pipeline for supply of gas to the Fertilizer Factory of the Fertilizer Corporation of India Ltd., will be soon taken up for construction.

ASSAM GOVERNMENT FILM STUDIO

Kahilipara, Gauhati.

The basic objective was to encourage private film producers to undertake production of indigenous films at the minimum cost. A substantial part of the project has been completed.

The State Government has constituted an Advisory Board to advise the Government in all matters on the management and proper maintenance of the Film Studio with the Chief Minister, as the Chairman.

BIHAR

BIHAR STATE SUPERPHOSPHATE FACTORY

P.O. Sindri Institute, Dist. Dhanbad.
(Bihar).

Installed capacity of plants : (i) 240 tons superphosphate per day ; (ii) 25 tons of 100 per cent sulphuric acid per day.

At present the factory produces between 35,000 and 40,000 tons of superphosphate a year.

HIGH TENSION INSULATOR FACTORY

P. O. Namkum, Ranchi-10, Bihar.

This factory has been set up by the Government of Bihar with the technical collaboration of Czechoslovakia. The present installed capacity is 2,400 metric tonnes per annum with the varying range of production as transmission line insulators upto 132 KV, bushings and Pin & Post insulators upto 33 KV besides L.T. Pin, Shackles and Guy insulators.

GUJARAT

THE BHAVNAGAR PUBLIC DAIRY LTD.

Bhavnagar (Gujarat).

This dairy draws supplies of milk from producers co-operative societies within 30 miles radius. Apart from bottled milk, the dairy also manufactures practically all major by-products including ice-cream, on a small scale.

It handles about 5,000 litres of milk per day processed through a 220 gallons per hour pasteurising plant.

GUJARAT STATE FERTILIZERS COMPANY LTD.

P. O. Box No. 123, Baroda.

The details of production, expansion plans, etc., are : First phase already completed. Annual production capacity in metric tonnes per year : Ammonia 150,000 ; Urea 103,000 ; Technical Grade Urea 3,300 ; Sulphuric Acid 156,000 ; Phosphoric Acid 54,500 ; Ammonium Sulphate 156,000 ; Diammonium Phosphate 113,000 ; Ammonium Sulphate Phosphate (20 : 20) 264,000 ; No. of persons employed 1,150. Total yearly potential sales Rs. 30 crores.

Second phase started (June 1967) — Ammonia 165,000 tons per year ; Urea 264,000 tons per year ; total Nitrogen and P_2O_5 313,000 tons per year ; (in terms of plant nutrient). Yearly total investment including working capital, interest, letter of credit formalities, etc., for first and second phase together Rs. 63 crores.

Third Phase — Cyclo hexane and Caprolactum 16,500 tons per year. Total number of persons employed 1,600.

JAMMU & KASHMIR

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

DRUG RESEARCH LABORATORIES

Raj Bagh, Srinagar.

The present production and the sales effected are valued at Rs. five lakhs and Rs. six lakhs respectively.

DRUG RESEARCH LABORATORIES

(Factories & Farms)

(CSIR)

Canal Road, Jammu, Tawi.

Belladonna concentrated extracts, Belladonna consumer goods, i.e., Belladonna plaster etc. Dissogenin, Menthol and Dementholised oil, Pyrethrum Oleoresin and cedarwood oil.

GOVERNMENT SILK WEAVING FACTORY

(Raj Bagh, Srinagar).

It is the largest powerloom factory for the production of pure silk fabrics in India. At present there are 126 looms and 9,000 spindles. The factory is equipped for dyeing and block printing.

The total production is 3.50 lakh metres per year.

GOVERNMENT WOOLLEN MILLS

(Srinagar, Kashmir).

The average monthly production on the basis of 1962-63 working is—cloth 2,31,000 yards and yarn 4,54,000 lbs.

[K E R A L A]

GOVERNMENT OIL FACTORY

(Kozhikode).

The factory now produces various vitamin products such as Seagold blended shark liver oil, Adamin liquid high potency Vitamin Oil, Adamin capsules, Stayfit liquid, Stayfit capsules, and Veterinary Vitamin Oil such as Univax and Trivax, etc. using up-to-date equipment and testing apparatus.

KERALA GOVERNMENT CERAMICS

Kundara, P.O. Kerala.

The Kerala Ceramics Ltd., Kundara consists of three working units.

Unit I, the New Porcelain Factory producing porcelain crockery, and low tension electrical insulators. *Unit II*, the old Factory is now being reorganised for the production of stoneware pipes and refractories and *Unit III*, China Clay Mines producing refined China Clay.

THE KERALA PREMO PIPE FACTORY LIMITED

Puthenthura (P.O.), Quillon District.

Registered Office : Puthenchantai, Trivandrum 1.

In this factory prestressed high and low pressure concrete pipes and R.C.C. pipes are manufactured for water supply, drainage and irrigation.

It also produces power transmission poles and mosaic tiles. The factory can design and manufacture special purposes reinforced concrete or prestressed concrete articles.

It can manufacture upto 25,000 metres of prestressed concrete pipes annually. Pipes can be designed and manufactured for all normal water supply and drainage requirements.

KERALA SOAPS AND OILS LTD.

(Soap Institute Division)

Calicut-11.

The institute manufactures several varieties of toilet soaps including the Kerala Sandalwood, Willingdon, Vep, Rose soaps etc. as also Wash-well and other varieties of bar soaps.

The capacity of the factory is about 450 tons per annum. But it is now being increased to 700 tons.

Turnover in 1967-68 was Rs. 16 lakhs.

PALLATHRA BRICKS & TILES LTD.

P.O. Kochuramapuram, Shertallay.

The object of the Company is to produce and distribute sand lime bricks, a new architectural brick of high strength and finish. The designed capacity of the factory is 44,000 bricks per working day of 16 hours.

TRACO CABLE COMPANY LTD.

Irimpanam, Ernakulam.

One of the main objects of the company was to carry on business as manufacturers and dealers in all kinds of wires and cables.

The present licensed capacity is 36 million core yards of VIR/PVC/Polythelene Wires & Cables and 1,500 M.T. of A.A.C./A.C.S.R. Cables.

The Company's present production lines include PVC Wires with both copper and aluminium conductors, PVC insulated armoured and unarmoured power cables for working voltages upto 1.1 kV and A.A.C. & A.C.S.R. Conductors.

The Company proposes to manufacture PVC insulated jumper wires, switch board wires and multicore telephone cables.

TRAVANCORE PLYWOOD INDUSTRIES LTD.

Punalur.

The installed capacity of the factory at present is 4.5 lakh sq. metres plywood panels including decorative sizes per annum.

Annual turnover is Rs. 20,00,000.

A modern commercial plywood unit with an installed capacity of 20 lakh sq. metres of plywood is expected to go into production in 1969-70.

TRAVANCORE TITANIUM PRODUCTS LTD.

Kochu Veli, Trivandrum-7 (Kerala)

The factory is the only unit in India producing Titanium Dioxide pigments, an important intermediate for paint and many other consumer products. It has now a production capacity of 18 M. tons per day.

TRIVANDRUM RUBBER WORKS LTD.

(Chackal, Trivandrum 7).

The main products of the company are Rubber goods such as Cycle Tyres and Cycle Tubes, Hoses of all kinds, Latex goods, foams cushions and mattresses, Tubings, sheetings, moulded goods etc., Cycle Rims and 'Kerala' Cycles. The Company is now exporting Cycle Rims to East African and other African countries. The company employs 415 persons.

TRIVANDRUM SPINNING MILLS LTD.

Balaramapuram.

Equipped with modern superhigh draft machinery for 25,200 spindles, this mill manufactures quality yarn of counts varying from 20's to 100's in hanks and cones.

MADHYA PRADESH**MADHYA PRADESH LAGHU UDYOG NIGAM LTD.**

Shahnaz Manzil, Sultania Road, Bhopal.

Main objects are to promote the growth and development of Small Scale Industries in the State.

The Nigam has undertaken the following activities:—

- (1) Procurement and distribution of scarce and controlled materials to the Small Scale Industries in the State at fair price through its raw material depots at Indore, Gwalior, Khandwa, Bhopal, Bhind, Jabalpur, Bhilai, Satna & Bilaspur.
- (2) Running of seven production units manufacturing umbrella ribs & sticks, brushes, cycles and cycle parts, centrifugal electric pumps and motors, finger jointed wooden products and iron and steel products.
- (3) Two New Production Units for the manufacture of Agricultural implements being started at Khandwa and Bhilai.
- (4) Supply of machines on hire purchase.
- (5) Sale of handloom and handicraft products, through 14 emporia and participation in exhibitions and export promotion.
- (6) Sales and publicity for the increased sales of products manufactured by the Production Units run by the Nigam and also to meet the demands of the State Government Departments Institutions.
- (7) Construction of industrial estates and development of industrial areas.

THE NATIONAL NEWSPRINT AND PAPER MILLS LIMITED

(Nepanagar, Nimar Dist., Madhya Pradesh).

The factory produces newsprint. The rated capacity of the plant is 30,000 tons yearly. The production during 1967-68 was 31,308 tonnes.

There were 1,440 workers as on March 31, 1968.

MAHARASHTRA**MANGANESE ORE (INDIA) LTD.**

3, Mount Road, Extension Nagpur.

The Manganese Ore India Ltd. operates the manganese mines in Nagpur, Bhandara and Balaghat districts. All mines except Dongri Buzurg, which were previously being worked by the C. P. Manganese Ore Co. Ltd. were transferred to this Company.

The output and sales of the usual grades of manganese ore during 1967-68 were 3,33,027 and 2,35,520 tonnes respectively, besides 1,06,605 and 53,200 tonnes respectively of lower grade ore. The total number of workers employed by the company at different mines is 16,000.

MYSORE**THE GOVERNMENT CENTRAL INDUSTRIAL WORKSHOP**

(Mysore Road, Bangalore 26).

Annual outturn: Rs. 35.57 lakhs. No. of persons employed: 322.

The workshop is engaged in general engineering works such as manufacture of inter cooler unit, cold blender, bobbins, road rollers, copper alloy and sliding bearing plates, hand mixers. The manufacture of low bed trailer and dumper bodies is also undertaken.

GOVERNMENT ELECTRIC FACTORY

(Mysore Road, Bangalore).

Main products: Transformers in sizes upto 3,000 kVA and voltages upto 33 kv to an aggregate of 3,00,000 kVA per annum. Annual outturn Rs. 150 lakhs. No. of persons employed: 1,000.

GOVERNMENT SANDALWOOD OIL FACTORIES IN MYSORE

Factories at (1) Mysore, (2) Shimoga (Mysore State).

Production: 1967-68: Quantity 108,952 Kgs. of Sandalwood oil valued at Rs. 89,63,000. No. of persons employed 330.

GOVERNMENT SOAP FACTORY

Post Box No. 1031, Bangalore-12.

Annual outturn: Rs. 2.13 crores. No. of persons employed: 298.

The factory produces 3,000 tons of soaps per year. It has now installed a latest Automatic Vacuum Toilet Soap Processing Plant (COMIS 150) imported from Italy. The factory produces world famous "MYSORE SANDAL SOAP" and other varieties of soaps.

THE HUTTI GOLD MINES CO. LTD.

Hutti P.O. (Via Raichur-Deccan).

The current production is at the rate of 1,15,000 tons of ore treated per annum with a recovery of 925 kg. of gold.

Production at the expanded rate was scheduled to commence early in 1969, when 3,10,000 tons of ore would be treated per annum for a recovery of about 1,930 kg. of gold.

THE MAHABOOB SHAHI KULBURGA MILLS CO. LTD.

Gulbarga (Mysore State).

The Mill has now a capacity of 17,000 spindles and 528 looms with Processing Section.

THE MYSORE CHROME TANNING CO. LTD.

Mysore Road, Bangalore-26.

The company manufactures all kinds of chrome upper leathers, B.T. sole leathers, besides manufacturing leather goods such as ammunition boots for police and defence departments, air travel bags, document cases, suit cases, ladies hand bags, industrial leathers, washers for hydro-electric turbines, safety belts and straps for hot line workers etc.

THE MYSORE IRON AND STEEL LIMITED

(Bhadravati, Shimoga Dist., Mysore State).

The Mysore Iron & Steel Ltd., an integrated steel plant, produces a number of engineering goods other than iron and steel. The company has the following products—mix with their annual capacities in tonnes. Alloy and special steels 77,000; Pig iron 80,000; steel ingots 1,80,500; steel sections, strips and rods 68,000; cement 90,000; Ferro-silicon, ferro-manganese, ferro-chrome, silico-manganese, low carbon ferro-manganese 20,000; cast iron vertically cast pipes 10,000; cast iron spun pipes 10,000; cast iron railway sleepers 15,000; cast iron castings 10,000 and cast steel castings 2,500.

The expansion scheme for stepping up the production of pig iron from 80,000 tonnes to 2,00,000 tonnes is under way. The Company exports its products like ferro-silicon pig iron and steel to various countries like U.K., U.S.A., West Germany, Saudi Arabia, Japan, Malaysia, Singapore, Ceylon, etc. The company employs 9,421 persons.

MYSORE GOVERNMENT SILK WEAVING FACTORY Mananthody Road, Mysore-4.

Annual outturn : Rs. 24 lakhs. Number of persons employed : 268.

The factory is engaged in the manufacture of high grade 100 per cent re-reeled pure silk fabrics such as Crepe-de-chine, Georgette, Satins, Sarees, Kerchieves, ties and other ladies wear. Annual outturn is Rs. 24 lakhs.

New varieties such as Tom-tom, Fireplay, Navrang, Champion, Rainbow, Taffetta fabrics; Scarves, Raw Silk fabrics, Batic printed sarees, Reversible sarees etc., are also manufactured.

MYSORE IMPLEMENTS FACTORY (Hassan).

Annual outturn : Rs. 40 lakhs. No. of persons employed : 309.

The factory has been mechanised for mass production of agricultural, estate and horticultural implements and tools like munties, pick axes, sledge hammers, shovels, crowbars, sheet metalware, etc. to meet the increasing demand from several Govt. departments for their several irrigation projects and drought relief works and private consumers. A network of agencies are functioning throughout the country.

MYSORE PORCELAINS LIMITED

P.B. No. 1, Science Institute Post, Bangalore 12.

The company manufactures a variety of electrical porcelains, the number of styles at the last count being 430. The present production capacity is 7,500 tonnes.

Annual outturn Rs. 170 lakhs.

Number of persons employed : 1,600.

NGEF LTD.

Byappanahalli, Bangalore-33.

Main products : (i) Transformers upto 40,000 kVA and voltages upto 132 kV to an aggregate of 600,000 kVA per annum, per single shift. (ii) *Motors :* Upto 1840 HP both in LT and HT upto 6.6 kV to an aggregate of 4,00,000 HP per annum, per single shift. (iii) *Switchgear :* Low oil content circuit breaker upto 11 kV, Air circuit breakers, HT and LT Switchboards, Distribution boards, Load Break Switches, Isolators, HRC Fuses etc., of the value of about Rs. 1.2 crores per annum, per single shift.

RADIO & ELECTRICALS MFG. CO. LTD.

Mysore Road, Bangalore-26.

The company manufactures radio receivers & allied components, plastic insulated wires & cables, electricity meters, water meters, wave-change switches, paper & electrolytic capacitors, loudspeakers, transistorised radio receivers, and community radio receivers. There is a Research & Development Wing to design a large variety of electronic test equipment mostly for company's own use. The company also produces single phase electricity meters, polyphase electricity meters—both 3 phase 4 wire and 3 phase 3 wire, multijet inferential type watermeters, a new type of watermeter viz. 'TNR' and lightning arresters.

TUNGABHADRA STEEL PRODUCTS LTD.

Tungabhadra Dam P.O. (Bellary Dist., Mysore).

Production : Steel structures including gates, hoists and transmission towers 4,000 tons per annum; penstocks 3,000 tons; grey iron castings 500 tons; cranes worth Rs. 18 to 24 lakhs per annum.

A galvanising plant with a capacity of 3,000 tons per annum in a single shift has been commissioned. The company has its own design branch, grey iron foundry, rubber seal section, X-ray and photographic section.

It has entered into a collaboration agreement with Messrs. Est. Neyrpic, Grenoble, France for the designing and fabrication of hydraulic gates.

ORISSA

CUTTACK IRON & STEEL PRODUCTS LTD

Industrial Estate, Cuttack-3 (Orissa).

The company manufactures fabricated steel goods. It undertakes all types of fabrication work. Its products can be divided into three categories : (1) Heavy Goods (trusses, transmission towers, hand cranes etc.), (2) Semi-Heavy Goods (window grill, steel window, W.I. gate, collapsible gate, garage gate, electric cross-arms, wheel barrow, scraper, drums etc.) (3) Light Goods (novelty goods like table tray, flower stand, garden chair and other types of furniture and office equipment like file tray, file rack, etc.).

ORISSA BOARD MILLS LTD.

P.O. Jagatpur (Dist. Cuttack, Orissa).

(Regd. Office : Meria Bazar, Cuttack-1).

This is a pilot project company of the Government of Orissa. The mills produce monolithic quality straw boards and mill boards from 16 oz. to 48 oz.

ROURKELA FABRICATIONS LTD.

Industrial Area, Rourkela-4.

The factory manufactures quality steel window, angle roof trusses, purlins, all steel screw gear shutters, falling shutters and for any type of structural heavy, medium and light.

Turn-over for 1967-68 : Rs. 5.20 lakhs.

TAMIL NADU

WOOL PROCESSING CENTRE

Vinnamangalam, North Arcot District, Madras.

The Wool Processing Centre, a joint venture of the Governments of Tamil Nadu and Mysore is processing tannery wool/hairs, bristles to meet the requirements of drugget, carpet and felt manufacturers of India and abroad. The production capacity is 750 tonnes per year.

The unit is controlled by the Director of Industries & Commerce, Tamil Nadu.

UTTAR PRADESH

GOVERNMENT CEMENT FACTORY

Churk, Mirzapur, U.P.

The plant's present rated capacity is 1,400 tonnes of cement per day. Production of cement during 1967-68 was 3,74,367 tonnes.

In the factory, 1,859 persons are working and 1,500 persons are working in the quarries of the factory.

GOVERNMENT PRECISION INSTRUMENTS FACTORY

Lucknow, P. Box 153, U.P.

The factory produces watermeters of 15 mm, 20 mm and 25 mm sizes, microscopes research, scholar and bullet

comparison and pressure gauges of 2½", 4" and 6" dial sizes in various ranges and depth gauges.

THE INDIAN TURPENTINE & ROSIN CO. LTD.

P.O. Clutterbuckganj, Bareilly (U.P.)

From crude resin, the company manufactures turpentine and rosin of international repute conforming to I.S.I. Certification marks. The gum of pine trees, the main raw material, is being obtained from the Kumaon and Tehri forests of U.P.

WEST BENGAL

THE KALYANI SPINNING MILLS LTD.

67, Bentinck Street, Calcutta-1.

Works: Kalyani, Dt. Nadia; and Habra, Dt. 24-Parganas.

Range of Manufacture: Cotton yarn from 20s to 100s, carded and combed, singles and doubles, in hanks and cones—for handlooms, powerlooms and hosiery.

Installed capacity: 75,160 spindles. Production during 1967-68: 12,51,420 kgs. Persons employed: 2,000 (approximately).

THE DURGAPUR PROJECTS LTD.

Registered Office: 10, Middleton Row, Calcutta-16.

Factory: Coke Oven Plant, P.O. Durgapur-2, Burdwan.

Products: Coke, Benzene, Industrial Toluol, Motor Benzol, Light Solvent Naptha and Lux Mas.

Tar Products: Carbolie oil, Solvent oil, Naphthalene oil, Crude Naphthalene, Anthracene oil, Timber Pickling oil, Sodium Phenolate, Processed Tar, Road Tar (No. 3 & 4).

INDEX NUMBER

INDEX NUMBERS OF WHOLESALE PRICES—BY GROUPS

(1952-53 = 100)

Period.	All commodities.	Food articles.	Liquor and tobacco.	Fuel, power, light and lubricants.	Industrial raw materials.	Manu- factures.
1961-62	125.1	120.1	100.3	122.1	142.6	126.6 (R)
1962-63	127.9	126.1	100.9 (R)	124.4 (R)	136.5	128.8 (R)
1963-64	135.3	136.8	119.6	139.4 (R)	139.5	131.1
1964-65	152.7	159.9	131.2	144.9	162.7	137.3
1965-66	165.1	168.8	136.6	153.0	189.1	149.2
1966-67	191.2	199.8	130.3	169.7	228.7	163.0
1967-68	212.6	242.2	136.6	184.5	220.5	165.5

Source of information:—Index Number of wholesale prices in India (Revised series) issued by the office of the Economic Adviser. (R) = Revised.

CONSUMER PRICE INDEX NUMBERS FOR URBAN

NON-MANUAL EMPLOYEES

(1960 = 100)

Centre	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68
All-India	104	108	113	124	132	146	159
Bombay	103	107	114	125	132	142	153
Delhi-New Delhi ..	105	111	116	125	131	142	154
Calcutta	102	107	112	118	126	139	152
Madras	106	111	116	125	133	147	154
Hyderabad-Secunderabad	104	107	111	122	133	147	155
Bangalore	106	111	115	124	133	145	156
Lucknow	102	105	110	125	132	146	159
Ahmedabad	103	105	112	125	131	146	160
Jaipur	105	108	115	126	133	150	162
Patna	102	106	111	124	139	160	179
Srinagar	105	111	120	128	134	143	160
Trivandrum	105	110	115	122	131	146	165
Cuttack-Bhubaneswar ..	107	113	122	135	142	154	164
Bhopal	109	111	115	128	133	144	166
Chandigarh	105	108	114	124	129	143	155
Shillong	103	107	114	121	123	134	155

Source: Central Statistical Organisation.

ALCOHOL INDUSTRY

INDUSTRIAL alcohol is a very valuable material in the manufacture of acetone acetic acid, ether, chloroform, ethyl acetate polyethylene, styrene, polystyrene, etc. It is also necessary as a solvent in the manufacture of fine chemicals, medical preparations, toilets, etc. Since the last war, its importance has increased. It is now essential in the manufacture of ammunition and of artificial rubber.

(The details about the progress and achievements during the three Plans have been fully discussed in the Directory for the year 1965-66).

It is estimated that during the Third Plan, Rs. 4.0 crores had been invested for attaining a capacity target of 324 million litres of alcohol by 1965-66. The imported component was likely to be about Rs. 40 lakhs.

The installed capacity and actual production of power and industrial alcohol are given below :

(Thousand litres)

MONTHLY AVERAGE					
(a) Power*			(b) Rectified spirit		
Production			Installed capacity**	Production	
1964	..	..	120.2	19,590.0	13,391.8
1965	..	..	67.9	24,297.0	15,718.7
1966	..	..	204.0	—	15,717.3
1967	..	..	51.1	24,864.0	10,663.4

* Installed capacity is not available.

** From February 1964 onwards figures include capacity of Power Alcohol.

SOURCE: Monthly Statistics of Production, (C.S.O.), January-February 1968.

In 1965, there were 60 distilleries in the country with a capacity of 2.75 lakh kilo litres. The aggregate installed capacity of these units now in production is 3.12 lakh kilo litres.

The total availability of alcohol, i.e. production plus imports minus exports was about 1,89,888 kilo litres in 1965. It shot up to 1,91,000 kilo litres in 1966 but came down to 1,43,000 kilo litres in 1968. The demand for alcohol is expected to go up to 3,00,000 kilo litres by 1971.

Imports of alcohol are banned, but small quantities are imported along with drugs and perfumed spirits or in the form of liquors. Exports of alcohol are confined to despatches of denatured spirit to Burma and Ceylon and small quantities of rum.

The annual drink bill of India is reported to be about Rs. 146 crores. Of this, one third is spent on illicit liquor. Delhi stands first in the consumption of foreign styled liquor, followed by Mysore. The present annual production of alcoholic drinks in India is 4,182 kilo litres. There are seven registered factories with a productive capital of Rs. 184 lakhs as per ASI data (1964). There was a decline in capacity utilisation by the alcohol industry from 67 per cent in 1966 to 47 per cent in 1968.

The fuel requirements of the industry is estimated at 2,50,000 tons of coal per annum in the final year of the Plan. The additional fixed investment is estimated at Rs. 4 crores, its foreign exchange component being about Rs. 40 lakhs. The additional employment during the Third Plan is estimated at 5,000.

Tentative 1970-71 estimates of demand versus supply of traditional raw materials. (Alcohol from Molasses).

(1) Alcohol Demand	Alcohol requirement (tonnes per year)
Polythylene	24,000
S B R	80,000
Acetic Acid	40,000
Butanol	13,000
Styrene (excluding SBR)	15,000
PVC/Ethylene Dichloride	10,000
Butanol/Acetic Acid/Zethyl	20,000
Hexacol	4,000
DDT	2,06,000
Miscellaneous and Potable.. .. .	1,50,000
	3,56,000

At present there is acute shortage of industrial alcohol. This is due to extreme shortage in supply of molasses and power alcohol. In some States it is found more profitable to convert molasses into country liquor. This has affected considerably alcohol based industries. Besides, export of molasses has not been totally stopped in India. But India will earn more foreign exchange by converting alcohol into manufactured goods like polythene, pharmaceuticals, etc. Creation of a Molasses Board to assess production and demand in various States is already mooted.

In Gujarat an alcohol distillery at a capital cost of Rs. 22 lakhs has been set up by the co-operative sugar factory at Kodinar. A new brewery in the private sector with Czechoslovak collaboration would be established in Kerala shortly. The Government of Maharashtra has issued licence to Mohan Meakin Breweries for setting up a brewery in the State.

ARECANUT INDUSTRY

ARECANUT is one of the most important commercial crops of India. It has an important place in the religious, social and cultural life of our people irrespective of caste, creed or social status. Chewing of arecanut with betel leaves and lime (Thambulam, Pan Supari) has become a habit with some people and a luxury of many in the country.

India ranks first in the world both in the acreage and production of arecanut. It is a source of livelihood for nearly four million people in the country.

The chief arecanut growing States in the country are Kerala, Mysore and Assam. These States account for nearly 93 per cent of the total area and production of the crop according to latest available official estimates. It is also cultivated to a smaller extent in certain areas of West Bengal, Tamil Nadu, Maharashtra, Andhra Pradesh, Orissa and Union Territory of Goa.

The overall average per capita consumption of betelnut in India is estimated at 0.33 kg. The highest per capita consumption is in Assam with 2.8 kg. In Kerala it is

0.67 kg. and in Mysore 0.66 kg. Among the cities, Delhi and Nagpur are two of the most important consuming markets.

Betelnut (processed arecanut) varieties are numerous in India and can be broadly classified into unboiled, boiled and coloured varieties.

During 1966-67 the country had 143,000 hectares under arecanut cultivation with a production of 128,000 tonnes of cured nuts. Statewise figures of area and production during 1966-67 are given below :

State	Area (in thousand hectares)	Production (in thousand m. tonnes)
Kerala	71.20	44.27
Mysore	35.95	48.00
Assam	26.21	26.15
Tamil Nadu	3.01	2.54
Maharashtra	2.31	2.42
Andhra Pradesh	0.28	0.16
West Bengal	2.14	1.98
Orissa	0.03	0.03
Goa	1.80	2.00
Total	142.93	127.55

The production of arecanut is at present inadequate for meeting the demand for internal consumption. In the past, substantial quantities were being imported from other producing countries viz., Ceylon, Malaya and Singapore to wipe out the deficit. In recent years, owing to restrictive import policy adopted by the Government, the imports steadily came down. Small quantities are being exported to Nepal, Kenya, Aden, Saudi Arabia, etc.

Development : During the Fourth Five Year Plan, it is proposed to have an additional production of 24,000 metric tonnes mainly through intensive cultivation in the existing areas. The various measures proposed for the purpose are intensive cultivation practices like proper manuring, irrigation and plant protection, in addition to proper cultural practices, under planting and gap filling etc. Organisation of field demonstration is also programmed to educate the farmers on modern methods of cultivation. The Fourth Plan programme is proposed to be restricted to the major arecanut growing states of Kerala, Mysore and Assam. No increase in area under arecanut is proposed during the Fourth Plan.

Marketing : Financial assistance in the form of managerial subsidy, share capital contribution and loan and subsidy for construction of godowns is being offered by the National Cooperative Development Corporation to meet the cost of management of the cooperative marketing societies in all important regions of production during the initial period in collaboration with the State Governments. There are 39 arecanut cooperative marketing societies located in the States of Kerala, Mysore, Tamil Nadu, Maharashtra, West Bengal, Assam and Goa, of which at present only four societies are receiving financial assistance. The marketing societies in Mysore State handled about 34 per cent of the marketable surplus during the year.

The total quantity of arecanuts sold by the cooperative marketing societies during 1966-67 was 1,34,927 qtls. valued at Rs. 8 crores, which formed about 13 per cent of the total marketable surplus in the country, against 1,04,696 qtls. valued at Rs. 6.43 crores in 1965-66. The total membership and share capital of these societies rose from 39,734 and Rs. 30.72 lakhs during 1965-66 to 60,509 and Rs. 46.30 lakhs respectively during 1966-67.

Regulated Markets : Regulated markets have been established in the important assembling centres in Mysore and Kerala (Malabar region) States under the Agricultural Produce Markets Act. The regulated markets besides checking the malpractices obtaining in the trade, also collect and disseminate market intelligence for the benefit of growers and traders.

Grading : With a view to standardising the grading of arecanut and introducing Agmark grade standards at farmers' level in Mysore and Tamil Nadu states, the Government of India in collaboration with the respective State Governments have implemented schemes on an experimental basis in respect of sun dried whole, boiled whole and boiled split types of arecanuts. It was reported that the graded arecanuts had a favourable demand and fetched a premium price in the markets.

Publicity : Propaganda materials in the form of bulletins, leaflets, pamphlets, charts, posters, etc. on the improved methods of cultivation based on the results of research, selection of seed materials, control of pests and diseases, market prices of the important trade varieties in the country and other matters of general importance to the farmers, are brought out and distributed amongst the growers in all the important producing areas of the country. Besides this, at the various exhibitions/fairs etc. the techniques of improved agricultural practices are explained to the farmers.

AUTOMOBILE INDUSTRY

THE historical background of automobile industry in India was given in the previous editions of the Directory.

MANUFACTURERS

The country had eight approved manufacturers of automobiles and/or engines by the end of 1955 :

1. Hindustan Motors Ltd., Calcutta :—Hindustan Cars and Studebaker trucks now replaced by Bedford trucks.
2. Premier Automobiles Ltd., Bombay :—Fiat Cars and Dodge and/or Fargo trucks.
3. Standard Motor Products of India Ltd., Madras :—Standard Cars.
4. Ashok-Leyland Ltd., Madras :—Leyland Trucks.

5. Mahindra & Mahindra Ltd., Bombay :—Willy's jeeps (now styled as Kaiser jeeps).
6. Tata Locomotive & Eng. Co. Ltd., Bombay :—Tata-Mercedes-Benz Trucks.
7. Simpson & Co., Ltd., Madras :—Perkins Engines.
8. Automobile Products of India Ltd., Bombay :—Meadows Engines.

Though the Government had originally accepted the recommendations of the Tariff Commission (1953) for the manufacture of (a) Baby and Big cars as well by Hindustan Motors Ltd., (b) Big cars as well by Premier Automobiles Ltd., and (c) Medium cars as well by Standard Motor Products of India Ltd., certain policy changes were later made by the Government. The difficult foreign exchange situation that developed by the end of 1956 and in the

beginning of 1957 necessitated these changes with the result that the types and makes of vehicles to be developed were rationalised to only 3 passenger cars, 3 medium type trucks, one heavy truck, one jeep and one light truck.

Cars : Three manufacturers of cars :

1. Standard Ten. 2. Fiat 1100, 3. Hindustan Ambassador/Land Master.

Commercial Vehicles :—

(a) One manufacturer of Light—1 ton : Dodge/Fargo (Petrol or Diesel).

(b) Three manufacturers of Medium—3½ tons : Dodge/Fargo (with petrol or diesel engine), 2. Mercedes Benz (with diesel engine), 3. Bedford (now called Hindustan).

(c) One manufacturer of Heavy : Leyland Comet, Tiger/Titan. Diesel Engines (for medium commercial vehicles) :—

Three manufacturers of : 1. Perkins—P/6, 2. Meadows—both suitable as original fitment for Dodge and Bedford vehicles, and 3. Tata Mercedes Benz.

Jeeps :—

One manufacturer of Kaiser Jeep (formerly called Willy's Jeep).

Thus the country had 3 models and 3 manufacturers for cars and medium trucks and one model and one manufacturer for light trucks, heavy trucks and jeeps in 1957.

The range of products in the field of light commercial vehicles (trucks) was augmented in the year 1958 by the introduction of the Tempo Hanseat $\frac{3}{4}$ ton three-wheeler commercial vehicle of Bajaj Tempo and, in the one-ton range, of the Jeep (truck), the Standard 20, the Tempo Viking and the Bedford in the years 1955, 1965, 1966 and 1967 respectively. Messrs. Ashok Leyland Ltd. introduced extra heavy duty trucks—the Beaver and the Hippo in the year 1966 and the Jumbo in the year 1968. Messrs. Hindustan Motors Ltd. and Messrs. The Premier Automobiles Ltd. introduced the Hindustan J6 and the Dodge/Fargo Rocket 7½ ton trucks, respectively, in the year 1968. Messrs. Tata Engineering & Locomotive Co. Ltd. introduced 3-Axle 10-tonne dumper in the same year.

Messrs. Automobile Products of India Ltd., discontinued the manufacture of Meadows automobile diesel engines early in 1961 and the rights for the same were acquired by Messrs. The Premier Automobiles Ltd. The latter now manufacture Meadows engines and a percentage of their Dodge/Fargo diesel trucks is fitted with this make of engine. Simpson & Co. Ltd., Madras, commenced the manufacture of Perkins P6/354 diesel engine also from the year 1966. Messrs. Hindustan Motors have set up a plant in 1968 for the manufacture of Bedford diesel and petrol engines for fitment on Hindustan Commercial Vehicles.

Messrs. Standard Motor Products of India Ltd., Madras now manufacture Standard Heralds instead of Standard '10.'

MANUFACTURE IN DEFENCE ESTABLISHMENTS

The Ministry of Defence also entered the field of manufacture through an agreement with the M.A.N. of West Germany in Sept. 1958 for the manufacture of multi-fuel medium trucks by the Ordnance factories. The rate of output was then reckoned at 2,000 per annum.

The 'Shaktiman' truck, as the truck has been called, has advantages over other trucks which the Army have been getting like increased payload by 30 per cent, multi-fuel engine and other special features which will make it a sturdy cross-country vehicle more suitable than other kinds for military purpose.

In 1960-61, Government entered into a collaboration agreement with the manufacturers of Nissan trucks in Japan for the progressive manufacture of this make of vehicle in the Ordnance establishments in India.

The manufacture of Shaktiman trucks in India commenced in June 1959. The manufacture of Nissan 1-ton trucks commenced in the year 1961-62 and the manufacture of Nissan petrol jeep type vehicles commenced in 1962-63.

Only 803 Shaktiman trucks were manufactured in 1961-62, the third year of production of these trucks, as against the planned output of 2,000 units. The indigenous content was of the order of 50 per cent against an anticipated indigenous content of 70 per cent in the third year. The total production of tracked vehicles in the Ordnance factories in India in the year 1962-63 was 2,733. Of these, 621 were 3-ton Shaktiman trucks, 1,046 Nissan 1-ton trucks and 1,066 Nissan (Jonga) Jeeps.

The manufacture of Nissan petrol trucks and Nissan jeep type vehicles received a fillip since the declaration of emergency. Early in 1964, a project report was drawn up for increasing the manufacture of Nissan jeep type vehicles and Nissan 1-ton trucks as these vehicles were expected to be useful for high altitude operation.

Chinese aggression in 1962 necessitated a reappraisal of the transport requirements of the Defence departments.

Production of vehicles in the Ordnance establishments was stepped up. Simultaneously, a sizeable percentage of the production of the vehicles in the civilian factories commenced to be taken over by the Government for the Defence needs of the country.

The target of production of Shaktiman trucks in the Ordnance factories was reduced from 2,000 to 1,500 per annum. Against this, the production during 1963-64 was 1,030 and during 1964-65, it was 1,094. The assembly of the truck is done at the gun-carriage factory. 1,350 trucks were produced in the year 1965-66 and the indigenous content at the end of the calendar year 1965 was reported to be 70 per cent.

Components and parts, both finished and semi-finished, for Shaktiman are imported from Germany whereas those for Nissan are imported from Japan. As the capacity of the Ordnance factories is utilised for vital items of high priority, Shaktiman and Nissan vehicles manufactured in the Defence Sector are having increasing quantum of components and parts produced in the civilian sector. 3,600 Nissan vehicles were produced in the year 1965-66 with an indigenous content of 38 per cent. 870 Shaktiman vehicles with an indigenous content of 77 per cent were produced during the year 1967-68. A vehicle factory is being established at Jabalpur for the manufacture of 6,000 Shaktiman 3-tonnes and 7,200 Nissan jeeps and trucks per annum. The factory is expected to commence production during 1970. The indigenous content of Shaktiman/Nissan trucks is expected to reach 90 per cent in about a period of two years from the date of commencement of manufacture in the new factory to be established at Jabalpur.

DEVELOPMENT COUNCIL FOR AUTOMOBILES

In 1959, the Government of India constituted a Development Council for Automobiles, Automobile Ancillary Industries and Transport Vehicle Industries. The Council is reconstituted once in every two years. The reconstituted Council of 1963 was entrusted with the additional responsibility of looking after tractor and earthmoving equipment industries. Subsequently, the road roller

industry was also brought within the purview of this Council. The Council was last reconstituted in April 1968 and the industries entrusted to its care include Automobiles, Automobile Ancillary Industries, Transport Vehicle Industries, Tractors, Earth-moving equipment, Internal Combustion Engines and Road Rollers.

The authorised capital of Automobile and Transport Vehicle Manufacturing Firms was about Rs. 65 crores with a paid-up capital of about Rs. 35 crores, early in 1961, at the end of the Second Five Year Plan period. The investment in Plant, Machinery and Buildings was over Rs. 30 crores. Of this total capital, the investment in the Ancillary Industry was about Rs. 6 crores.

The Development Council for Automobiles, etc., had estimated that the total investment in the industry by the end of the Third Plan period would be Rs. 130 crores, Rs. 100 crores by the Main Manufacturers and Rs. 30 crores by the Ancillary Sector. The Council had estimated the total value of production at the end of the Third Plan period at well over Rs. 260 crores.

The targets laid down in the Third Five Year Plan and the production achieved in the final year of the Third Five Year Plan are given below :

Type of motor vehicle	Capacity target 1965-66	Production 1965-66
Cars	30,000	25,029
Jeeps	10,000	10,385
Commercial Vehicles ..	60,000	35,437
Motor cycles, scooters and three wheelers	60,000	42,823 (excluding mopeds)
Ancillary Industries	Rs. 250 million	Rs. 450 million

In the beginning of the Third Plan period, emphasis was rightly placed on providing foreign exchange for the import of machinery necessary to increase the indigenous content to 90 per cent. Foreign Exchange allocations and Aid arrangements for imported plant and machinery for achieving the indigenous content of 90 per cent and for the planned expansion programme were settled by the middle of 1964. The expansion programme for motor cars was, however, kept in abeyance. Most of the plant and machinery required by the Main Manufacturers and by the Ancillary Industry for achieving 90 per cent indigenous content were received and installed by the end of the Third Plan period. Thus, there has been a considerable increase in the authorised capital, paid-up capital, number of units in the ancillary sector and investment in plant, machinery and buildings in the automobile and ancillary industries during the last five years.

The difficult foreign exchange position and the border situation resulted in a drastic cut in the allocation of foreign exchange for motor cars in the year 1963. Though commercial vehicles were given a high order of priority, a token cut was imposed in the allocation of foreign exchange for these as well. Despite this token cut, the overall allocation of foreign exchange for commercial vehicles stood at a higher figure in 1963-64 consequent to the need for stepping up the production to meet the requirements of Defence.

A World Bank Mission toured India in 1963 and inspected the major establishments in the Automobile & Ancillary Industries with a view to deciding the nature

and extent of assistance which the World Bank could render for the Automobile, Road Transport and Machine Building Industries. Based on the recommendations of this team, Automobile & Ancillary Industries were given assistance by the World Bank to the tune of 47 million dollars, i.e. about Rs. 23.4 crores. This assistance was confined to manufacture and maintenance of commercial vehicles i.e., to enable additional imports of (1) components and parts in c.k.d. and semi-finished form, (2) spare parts and (3) machinery by way of balancing equipment, all for commercial vehicles.

Similar assistance of a slightly higher order was made available by the World Bank in the second half of 1965 which was expected to go a long way to ensure a continuous flow of production till the end of 1965-66.

Such surveys, on the spot studies for assessment of loan utilisation by representatives of the World Bank and assistance have now become a yearly feature.

The allocation of foreign exchange during the three years ending 1967-68 for the automobile and ancillary industry was as under :—

	Rs. (in million)		
	1965-66	1966-67	1967-68
Commercial Vehicles ..	188.14	231.58	182.09
Cars	22.69	40.00	29.75
Jeeps	15.60	11.06	16.50
Motorcycles, Scooter & Mopeds and Three- Wheelers	23.99	38.77	38.05
Automobile Ancillaries	78.32	254.66	N.A.

The production of different makes of commercial vehicles per annum at the end of the Third Five Year Plan was : Tata Mercedes Benz 17,500 Nos. ; Dodge/Fargo 8,011 Nos. ; Hindustan 4,000 Nos. ; Ashok Leyland 4,050 Nos. ; Jeep vehicles 21 Nos. ; Tempo 1,587 Nos. ; Standard Twenty 268 Nos.

Messrs. Premier Automobiles Ltd. and Messrs. Hindustan Motors Ltd. have been granted licences to manufacture their own make of diesel engines while, at the same time, Messrs. Simpson & Co. Ltd. have been granted a licence to manufacture a medium commercial vehicle chassis of their choice. The two projects appear to be still in the negotiation or blue print stage. Messrs. Hindustan Motors Ltd. have commissioned a new plant for manufacture of engines for cars and commercial vehicles.

INVESTMENTS AND CAPACITIES

The total investment by the eight main vehicle manufacturers was about Rs. 100 crores in mid-1968. The total investment in the Two-cum-Three Wheeler Industries was about Rs. 10 crores at the time. The investment in the ancillary industry was about Rs. 55 crores in the middle of the year 1968. There are at present seven units engaged in the production of commercial vehicles having a capacity of 63,000 nos. per annum. The production is still short of the capacity. A number of difficulties are attributed for not achieving the target. These include the acute foreign exchange position due to which the industry was unable to secure adequate quantum of raw materials, particularly alloy, tool and special steels, and components, the shortage of certain categories of tyres, the stringent conditions prevailing in the money market and the crippling burden of taxation on road transport. This recessionary trend, which continued till the end of 1967, showed signs of abating in the year 1968.

PRODUCTION

The production figures of automobiles from 1960 onwards, year by year, are tabulated below :—

Production for the year				Passenger Cars	Jeeps	Commercial Vehicles
1960	..	..	..	19,096	5,501	27,512
1961	..	..	..	21,662	7,052	26,214
1962	..	..	..	23,326	7,597	26,894
1963	..	..	..	15,711	8,104	28,482
1964	..	..	..	23,227	10,391	33,157
1965	..	..	..	24,790	10,483	37,408
1966	..	..	..	27,597	9,777	35,156
1967	..	..	..	33,344	5,561	31,454
1968	..	..	..	37,308	7,293	34,940

Production of Diesel Engines for fitment on Dodge/Fargo and Bedford Chassis is given hereunder :—

	Perkins P6V	Meadows	Total
1960
1961
1962
1963
1964
1965
1966
1967
1968

* Includes Perkins P6/354 diesel engines.

The trend of increase in the indigenous content of the vehicles can be gauged from the statement given below :—

	1961-62 %	1962-63 %	1963-64 %	1964-65 %	1965-66 %	1966-67 %
<i>Passenger Cars</i>						
Ambassador	74.5	76.2	77.5	80.4	90.0	93.70
Fiat	49.01	56.0	64.0	74.0	88.0	95.0
Standard Herald	43.8	45.3	60.13	65.0	79.0	88.5
<i>Commercial Vehicles</i>						
Bedford	60.9	60.9	60.9	73.9	80.0	83.3
Dodge/Fargo	74.0	74.0	79.8	88.25	94.0	96.5
Tata Mercedes Benz	67.0	67.0	77.0	86.0	91.0	91.0
Leyland Comet	43.3	58.8	76.0	81.5	85.4	86.5
Tempo 3-Wheeler	63.0	68.0	75.0	86.4	88.5	92.0
Jeep	59.0	68.0	79.3	82.9	90.0	92.93

The average indigenous content of automobiles at the end of 1967 was over 95 per cent and had reached over that percentage in the case of a few types of vehicles. The indigenous content of diesel engines in 1967 was over 93 per cent.

AD HOC COMMITTEE ON AUTOMOBILES

Satisfactory progress: In 1959, the Government appointed an Ad Hoc Committee to review the progress of the automobile industry, to recommend the measures to be taken to reduce the cost to the consumer of the different vehicles and to examine the feasibility of producing a low cost car within the price range of Rs. 5,000 to Rs. 7,000. The Report of the Committee was received by the Government in the beginning of 1960. Reviewing the progress made by the automobile industry since the Tariff Commission's enquiry in 1956, the Committee has remarked that the decision to grant protection to the industry was a sound one, that the achievement of self-sufficiency regarding transport vehicles was of great importance to the economy and that even in regard to passenger cars the consumer would have been far worse off, if in the present difficulties regarding foreign exchange there had been no domestic industry. The Committee considered the progress of the automobile industry satisfactory on the whole and particularly in the last few years. It also observed that most of the automobile vehicles were expected to reach 80 per cent or more of indigenous content before the end of 1961. In regard to the production of the low cost car, the Committee were of the view that its production was feasible. To examine

further the development of the low cost car, the Government appointed an Expert Committee, who submitted the report in May, 1961. After mature consideration by expert committees, finance bodies and the Planning Commission, the proposal to manufacture a low cost car was kept in abeyance during the Third Five Year Plan period. This proposal envisaged by the Ministry of Industrial Development & Company Affairs to be taken up in the Public Sector during the Fourth Five-Year Plan does not appear to be feasible according to statements made by spokesmen of the Ministry of Finance and the Planning Commission.

The subject of the low cost car or the "people's cheap car" as it is commonly called is raised at frequent intervals during question hours in the Lok Sabha. There are at present as many as 20 proposals for the manufacture of the small car under consideration of the Government of India.

MOTOR CYCLES, SCOOTERS, THREE-WHEELER VEHICLES

Manufacture of motor cycles, scooters and three-wheelers was established in the year 1955. At the beginning of the Third Plan, there were three manufacturers, namely Messrs. Enfield for motor cycles and Automobile Products of India and Bajaj Auto Limited producing scooters and three-wheelers. The number has now increased to seven and the new comers cover motor cycles, scooters, mopeds and three-wheelers. The Third Plan production target was 60,000. Although the licensed

* Scooter Output : The target of production of scooters in 1968-69 is 60,000 to 65,000 vehicles against an expected total production of 43,000 in 1967-68. A production capacity of 1,50,000 scooters and a target of production of 1,20,000 are aimed at in the Fourth Plan.

NCAER, taxes and duties were as high as 42 to 49 per cent of the selling prices of vehicles, early in 1965.

The Indian Automobile Manufacturer is working under another serious handicap inasmuch as he is called upon to pay a high price for the capital plant and machinery installed in his works. In addition, he has to buy imported raw materials at a cost 50 per cent in excess of that paid by his counterpart in foreign countries.

EMPLOYMENT

The total employed directly in the automobile and ancillary manufacturing industries including those in the Small Scale Industry Sector is in the neighbourhood of 1,25,000. This figure, however, does not include the indirect employment this industry affords in various distribution, operation and maintenance centres, connected with it. It would not be an exaggeration to say that the indirect employment figure would be about 20

times the figure of labour directly employed by the industry.

The National Council of Applied Economic Research conducted an enquiry in 1960 on the employment potential in road transport in India and came to the conclusion that the total number of persons who find employment in the road transport industry in its broad sense is about 2.40 millions.

Considering the increase in the vehicle population of the country and the progress of automobile and allied industries in the last seven years, it can be safely reckoned that about 3.5 million persons find employment now in the road transport and allied industries.

THE AUTOMOBILE INDUSTRY AND THE FOURTH PLAN

The Fourth Plan Working Group for Transport Equipment has recommended the following targets for the Fourth Five Year Plan to the Planning Commission :—

	1969-70	1970-71	1971-72	1972-73	1973-74
(a) Commercial Vehicles	47,000	56,000	68,000	84,000	1,00,000
(b) Cars	45,000	50,000	55,000	65,000	75,000
(c) Jeeps	11,000	12,000	13,000	14,000	15,000
(d) (i) Motorcycles, Scooters & Mopeds	1,00,000	1,25,000	1,50,000	1,75,000	2,00,000
(ii) Autorickshaws	6,000	7,000	8,000	9,000	10,000

The above estimates do not cover the automobile industry in the Defence Sector.

The value of automobile and ancillary production is estimated to be Rs. 3,250 million during the year 1968-69 and the corresponding value in the year 1973-74 to be Rs. 8,000 million.

Export of Automobiles and Ancillaries

A start has been made in the export of Indian manufactured vehicles and automobile ancillary products to neighbouring countries. Vehicles of Indian origin now run on the roads of other countries, viz. U.A.R., Aden, Ceylon, Viet Nam, Cambodia, Tibet, Sikkim, Bhutan, Bulgaria, etc.

The value of exports of vehicles stood at Rs. 2 million and Rs. 4 million in 1962-63 and 1963-64 respectively. The Rs. 11 million mark was touched in 1964-65 and the exports were well over Rs. 15 million in 1967-68. Sizeable orders for Tata Mercedes Benz and Ashok Leyland Comet vehicles were placed on the respective manufacturers by the Ceylon Passenger Transport Board in the last two years. Messrs. TELCO alone have booked export orders to Bulgaria, etc. for Rs. 12 million in 1966-67.

The Fourth Plan Working Group for Transport Equipment has estimated that the exports of the automobile and ancillary industries which are Rs. 25 million at present are expected to be in the region of Rs. 450 million by the end of the Fourth Plan.

AUTOMOTIVE RESEARCH ASSOCIATION OF INDIA

A research association for the Automobile Industry was registered in Bombay towards the end of the year 1966. It is understood that the research association is modelled on the lines of the Textile, Art Silk and Cement Manufacturers' Research Associations. The Association has formulated plan and programmes towards the end of the year 1968 for its immediate functioning.

The Tariff Commission was requested by the Government of India to inquire into the prices of automobiles and automobile ancillaries and continuance of protection to the industry beyond 31st December, 1967. The Commission held public enquiries with the concerned automobile interests and went into the cost investigations of the automobile and automobile ancillary manufacturers' organisations. Their report was submitted to the Government in 1968.

Number of Motor Vehicles in India as on December 31, 1967

State	Motor cycles	Auto-rickshaws	Jeeps	Private Motor Cars	Motor Cabs	Buses	Goods Vehicles	Miscellaneous Vehicles	Total
Andhra Pradesh ..	23,060	490	4,418	26,649	1,129	5,630	16,891	5,835	84,102†
Assam(P)	1,783	51	2,869	8,786	397	2,348	10,519	5,183	31,936†
Bihar	12,377	32	5,614	14,036	1,336	3,071	11,532	2,037	50,035†
Gujarat(P)	17,840	2,670	4,620	17,000	890	3,800	15,850	8,400	71,070†
Jammu & Kashmir (P)	1,500	30	440	1,600	210	900	3,800	150	8,630†
Kerala	6,611	450	1,616	21,067	5,176	4,273	9,184	1,129	49,506†
Maharashtra ..	37,800	1,527	7,917	71,163	10,277	8,227	45,786	11,662	1,94,319†
Madhya Pradesh(P)	11,800	400	4,800	12,200	590	4,600	15,900	5,000	55,290†
Mysore	18,945	2,132	3,483	21,804	1,181	6,810	16,443	4,384	75,782†
Orissa(P)	3,600	—	3,500	4,000	90	1,250	8,800	1,450	22,690†

(P) Provisional figures.

† As on 31-3-1967.

‡ As on 31-3-1966.

Number of Motor Vehicles in India as on December 31, 1967—(Contd.)

State	Motor cycles	Auto-rickshaws	Jeeps	Private Motor Cars	Motor Cabs	Buses	Goods Vehicles	Miscellaneous Vehicles	Total
Punjab(P)	11,800	900	1,420	7,200	750	2,800	9,800	2,400	37,070†
Rajasthan(P) ..	7,600	250	1,250	13,850	290	6,100	12,900	6,700	48,940†
Tamil Nadu	15,384	832	3,000	31,304	4,200	6,410	14,568	2,063	77,761†
Uttar Pradesh(P) ..	17,400	20	5,400	16,500	460	7,300	20,000	3,000	70,080†
West Bengal(P) ..	19,600	300	9,600	77,200	6,320	7,800	40,900	7,400	1,69,120†
Andaman & Nicobar Islands	120	—	68	45	21	19	192	83	548†
Delhi	35,094	6,985	1,745	27,294	2,751	1,683	5,543	1,793	81,988†
Himachal Pradesh(P)	300	2	325	140	190	500	1,500	160	3,117†
Manipur	266	—	610	186	—	175	666	169	2,072†
Tripura	161	706	—	189	94	238	940	229	2,557†
Goa, Daman & Diu	1,898	2	—	3,532*	448	522	3,691	—	10,093\$
Pondicherry	400	—	55	600	—	115	165	200	1,535†
Total ..	2,45,339	16,879	62,750	3,76,345	36,800	74,571	2,65,570	69,987	11,48,241

(P) Provisional figures.

* Includes Jeeps.

† As on 31-3-1967.

‡ As on 31-3-1966.

\$ As on 31-3-1965.

CASHEW NUT INDUSTRY

THE Cashew is grown extensively in several parts of the country and there are over 170 cashew processing factories, about 150 of which are situated in and around Quilon, which is the nerve centre of this industry. India has not reached self-sufficiency in the production of cashew nuts. The Cashew Development Council, Calicut is introducing a development programme by which an additional area of six lakh acres could be brought under cashew plantation and replanting scheme in old plantation areas, during the Fourth Plan* period.

CASHEW TREE

The cashew tree (*Anacardium Occidentale*) is a drought resistant tree, adaptable to different kinds of soils and thriving under a variety of climatic conditions. But maximum production is obtained from good soil, preferably deep loam with adequate moisture.

Cashew tree ordinarily grows to a height of 20 to 30 ft. but in certain favourable conditions reaches a greater height.

CULTIVATION

The cashew tree is usually raised from seed and after sowing, practically no attention is paid to the crop, either by way of watering, manuring or other kinds of inter-cultivation. Being a hardy plant, it comes up well even under diverse conditions of soil and climate.

FLOWERING

The tree commences flowering from the 4th or 5th year. Normal yields can be obtained from the 8th to 10th year onwards and the tree continues to be productive for over 30 years.

The actual yield depends upon a variety of conditions and may vary from about 5 lbs. of dry raw cashew nuts to 50 lbs. per tree.

CASHEW APPLE

What distinguishes the cashew from all other fruits, is the formation of the nut which grows at the bottom end of the 'apple'. The 'apple' varies in size from 2 to 3

inches in length and 1½ to 2 inches in width. It has a thin waxy skin and is conical or pearlike in shape. It is a juicy fruit which, when fully ripe, is quite sweet and has a pleasant aroma. This fruit is particularly rich in Vitamin C. Botanically speaking the 'apple' is only the swollen end of the peduncle to which the cashewnut is attached.

A small percentage of the production of the apples is directly consumed and some quantity is used for the manufacture of vinegar, pickles, jam, beverages etc.

RAW CASHEW NUT

The whole cashew nut, which is attached to the end of the cashew apple, is about 1½ inches long and is grey, brown or ash coloured. It is shaped like the kidney.

CASHEW KERNEL

The cashew kernel inside the nut, has a delicious taste, pleasing flavour and high nutritive value. It compares favourably with almonds and other nut foods in nutritive value. Cashew kernels contain about 21 per cent carbohydrates and appreciable quantities of calcium, phosphorus, fat, iron and vitamins A and B. Compared to other edible nuts, cashews contain a lower percentage of carbohydrates, fats and alkalinity and this gives it a definite advantage over other nut foods. Cashew kernels are consumed raw or fried, salted or sugared. It is considered as an ideal snack item in many countries. It is also widely used as a flavouring medium in the confectionery and baking industry.

EXPORT

Accounting for 90 per cent of the world demand for cashew kernels, Indian exports were valued at Rs. 42.89 crores in 1966-67 and expected to go up in 1967-68 to Rs. 46.50 crores.

PROCESSING

After collection of the raw cashew nuts, they are processed in cashew factories. Processing consists of roasting, shelling, peeling and grading.

* As originally conceived.

PACKING

Cashews are packed for bulk exports in tins each containing 25 lbs. net weight of cashew kernels. The 'Vitapack' method employed for packing, provides for exhaustion of air from the tins and infusion of Carbon-di-oxide, before the tins are hermetically sealed. The tins are packed in wooden cases, two in each case, and the cases are box-strapped, before shipment.

Cashews, both plain and salted are also packed in small consumer size containers, of various capacities. While the greater part of exports are made in bulk packings, cashews packed in consumer size packings are also being increasingly exported to foreign markets.

QUALITY CONTROL

Qualified entomologists make regular inspection of cashew processing factories, affording all guidance and help to maintain these in hygienic and ideal conditions. To ensure that only cashews of approved standards are exported, a system of compulsory pre-shipment inspection is in force in India.

DIFFERENT APPROVED GRADES OF CASHEW KERNELS

1. 210 Count Wholes (W 210); 2. 240 Count Wholes (W 240); 3. 280 Count Wholes (W 280); 4. 320 Count Wholes (W 320); 5. 400 Count Wholes (W 400); 6. 450 Count Wholes (W 450); 7. 500 Count Wholes (W 500); 8. Scorched Wholes (S W); 9. Scorched Wholes Seconds or Scorched Wholes I.A. (SSW or SW I.A); 10. Dessert Wholes (DW or SSW); 11. Butts (B); 12. Splits (S); 13. Large White Pieces (LWP); 14. Small White Pieces (SWP); 15. Baby Bits (BB); 16. Scorched Butts (SB); 17. Scorched Splits (SS); 18. Scorched Pieces (SP); 19. Scorched Small Pieces (SSP); 20. Scorched Pieces Seconds or Scorched Pieces IA (SPS); 21. Dessert Pieces (DP); 22. Dessert Small Pieces (DSP); 23. Dessert Butts (DB); 24. Dessert Splits (DS).

(Grade designation is given within brackets).

CASHEW NUT SHELL LIQUID

Cashew nut Shell liquid (CNSL) is a by-product of cashew industry. The nut has a shell of about $\frac{1}{8}$ inch thickness inside which is a soft honeycomb structure containing a dark reddish brown viscous liquid. It is called the cashew nut shell liquid, which is the pericarp fluid of the cashew nut.

Chemistry of CNSL: The cashew nut shell liquid consists chiefly of the two naturally produced phenolic compounds — Anacardic acid (about 90 per cent) and Cardol (about 10 per cent).

Analysis and Specification: The specification of the Indian Standards Institution, New Delhi for untreated cashewnut shell liquid (IS : 840-1956) is as follows :

Specific Gravity, 30°C/30°C	.. ..	0.940 to 0.960
Viscosity at 30° in centipoises (max.)	.. ..	550
Moisture, per cent by weight (max.)	.. ..	1.0
Matter insoluble in toluene, per cent by weight (max.)	.. ..	1.0
Volatile matter other than moisture, per cent by weight (max.)	.. ..	1.0
Iodine value (Wijs) min.	.. ..	220
		unless otherwise agreed.
Ash, per cent by weight (max.)	.. ..	1.0
Polymerisation		
(a) Time in minutes (max.)	.. ..	19
(b) Centipoises at 25° (min.)	.. ..	30

Uses and Applications: The innumerable industrial applications of the cashewnut shell liquid are based on the fact that it lends itself to polymerisation by various methods.

PATENT BOOKS

The Cashew Export Promotion Council, Ernakulam has published a collection (in two volumes) of 243 patents on Cashewnut Shell Liquid taken in the U.S.A., U.K., Japan and India. The publication describes the various uses and applications of the shell liquid in the manufacture of paints, chemicals, plastics, brake linings, etc.

EXPORTS

The export of cashew kernel and cashew shell liquid fetched Rs. 44.42 crores during 1967-68. But owing to low production of raw nuts, the country had to import 1.68 lakh tonnes of raw nuts from East African countries, costing Rs. 25.08 crores during the year. The net earning of foreign exchange was Rs. 19.34 crores.

Export of Cashew Kernels

(Quantity in M. Tonnes)

Countries	1961-62	1966-67	1967-68
U.S.A.	24,300	22,400	27,400
U.S.S.R.	6,000	15,500	11,100
U.K.	3,100	2,900	2,700
East Germany ..	1,850	2,800	2,300
Australia	1,300	1,500	1,600
Canada	1,500	1,400	1,900
France	150	500	400
Japan	220	500	300
Netherlands ..	500	500	600
Hong Kong	420	500	400
West Germany ..	1,050	460	500
Czechoslovakia ..	..	430	400
Lebanon	30	300	200
Belgium	150	200	200
Malaysia & Singapore..	130	170	200
New Zealand	210	110	100
Iran	130	90	30
Poland	150	70	50
Sweden	200	60	60
Italy	70	60	60
Spain .. ..	..	60	160
Kuwait	20	60	50
Switzerland	40	40	50
Bahrain	50	30	30

Total exports including other countries	.. ..	41,750	50,760	51,040
Value in Rupees (millions)	.. ..	182	428	430

Export of Cashewnut Shell Liquid

(M. Tonnes)

Countries	1961-62	1966-67	1967-68
U.K.	2,900	5,100	4,300
U.S.A.	2,300	3,900	2,800
Japan	900	2,400	2,100
Australia	40	100	30
Netherlands ..	1	80	12
South Korea ..	..	60	110
Greece	20	40	20

Total exports including other countries	.. ..	6,230	11,760	9,440
Value in Rs. (Millions)	.. ..	6.1	20.1	13.9

CEMENT INDUSTRY

THE cement industry in India occupies a position of basic and strategic importance in the economy.

The following figures show that *per capita* consumption of cement in India is far lower than that in some countries.

Per capita consumption (kg.): West Germany 450; U.S.A. 345; Japan 345; U.K. 206; India 22.

During the First Plan period, production of cement increased from 2.69 million tonnes to 4.60 million tonnes. During the Second Plan period, it rose from 4.60 million tonnes to about 7.8 million tonnes.

By the end of the Third Plan the production of cement rose sharply to about 12 million tonnes. Recently the Planning Commission suggested to the Cement Corporation of India (CCI) to undertake, if necessary, an expanded programme of cement production of the order of one million tonnes in the Fourth Plan. This is in addition to its allotted quota of one million tonnes during this period.

The trend of capacity and actual production in the past five years is indicated below.

	(in lakh metric tons)				
	1963	1964	1965	1966	1967
Capacity	103	108	113	126	128
Production	94	97	106	111	117

Installed Capacity and Production of 10 Leading Cement Companies

							('000 tonnes)		
							1966		
							1967		
				Installed capacity	Production	Despatches	Installed capacity	Production	Despatches
1.	A.C.C. Ltd.	..	..	4,746	4,392	4,333	4,990	4,509	4,490
2.	India Cements Ltd.	..	..	830	898	894	880	902	888
3.	Jaipur Udyog Ltd.	..	..	818	773	768	818	828	836
4.	Shree Digvijay	..	..	640	616	607	657	560	558
5.	Birla Jute Mfg.	..	..	555	495	498	688	637	622
6.	Saurashtra Cement	..	..	533	364	362	533	367	365
7.	Dalmia Cement (Bharat)	..	..	419	531	533	419	513	506
8.	Orissa Cement	..	..	401	404	401	401	345	342
9.	Rohtas Ind.	..	..	315	282	276	315	327	312
10.	KCP Ltd.	..	..	254	157	153	254	181	181

Source : Cement, Quarterly Journal of CMA, August 1968.

DIFFERENT TYPES OF CEMENT

(1) *Ordinary Portland Cement*: Conforms to IS-269-1958 for ordinary portland cement.

(2) *Low Heat Portland Cement*: Conforms to IS 269-1958 for low heat cement.

(3) *Rapid Hardening Portland Cement*: This is specially useful for meeting the demands for speed in modern construction. It has the property of rapidly developing a high strength at any early stage, resulting in considerable reduction of construction period. Manufacturers of this type are A.C.C., Dalmia Cement (Bharat) and Orissa Cement Ltd.

(4) *White Cement*: Widely used for tiles, terrazzo, artistic decorations and for extension and interior finishes in all types of buildings, this cement is as good as any portland cement and has the same toughness to withstand weathering and wearing. Being pure white this cement can be coloured to any desirable shade by mixing it with pigments. Manufacturers are A.C.C. (at Porbander and Kymore) and Travancore Cements at Kottayam.

The comparative position with regard to the increase in production of cement in India since 1951 in relation to those in some of the more advanced countries of the world is given in the following table:

PRODUCTION

(Millions of metric tonnes)

Country	1951	1956	1961	1966	Percentage increase between 1951 and 1966
France ..	8.4	11.4	15.5	23.4	179
India ..	3.2	5.0	8.2	11.1	249
Italy ..	5.6	11.3	18.0	22.4	300
Japan ..	6.5	13.0	24.6	38.0	485
U.K. ..	10.4	12.9	14.4	16.8	62
U.S. ...	42.1	56.6	57.8	63.4	51
U.S.S.R. ..	14.0	24.8	51.0	80.5	475
West Germany	12.2	18.8	27.1	34.7	185

Source : Quarterly Journal of The Cement Manufacturers' Association.

(5) *Oilwell Cement*: Oilwells are drilled to a depth of 1,000 to 5,000 metres or more. The ambient temperatures at such great depths are very high and ordinary cement grout (when used to cement the sides of the wells) will harden before it is pumped to those depths. Oilwell cement grout remains fluid for enough time under such conditions to allow placement. Once it is placed it develops full strength in a very short time and remains stable. The Shahabad factory of the ACC manufactures this type of cement.

(6) *Hydrophobic Cement*: This type has an aversion for water and it can, therefore, be stored for comparatively long periods under humid conditions. It can also be transported, even when it is raining, without being spoiled. The protective water repellent coating is destroyed by the abrasion of the sand and aggregates when the cement is mixed with these in the presence of water. This type is now manufactured by A.C.C. and Shree Digvijay Cement Co.

(7) *Asbestos Cement* : The controls on the distribution of asbestos cement sheet had been lifted with effect from June 1, 1966.

DECONTROL & PRICE

The control on cement industry was lifted from January 1, 1966. In the place of STC, a new organisation called "Cement Allocation and Co-ordinating Organisation" (CACO) was set up by the cement manufacturers with regional offices at Bombay, Calcutta, Delhi and Madras for the entire distribution of cement throughout the country as well as to meet the requirements of the Government and the public.

However, the Government by the Cement Control Order, 1967 have entrusted cement distribution to Cement Corporation of India Ltd. from January 1, 1968. The functions hitherto entrusted to the industry controlled CACO will now be performed by CCI. During the tenure serious differences rose among the members of CACO in regard to retention price and equitable allocation of

demand. Another serious charge was the diversion of funds meant for expansion of the industry to political parties.

EXPANSION

To meet the requirements of higher production from the existing level of 12 million tonnes (annual capacity) to 19.2 million tonnes by 1969; the following schemes have been taken in hand.

- (1) U.P. Government at Dalla — 4 lakh tonnes
- (2) Tamil Nadu Government at Srivilliputtur — 2 lakh tonnes
- (3) CCI at Mandhar (M.P.) — 2 lakh tonnes
- (4) CCI at Kurkunta (Tamil Nadu) — 2 lakh tonnes
- (5) ACC at Kymore (M.P.) — 2 lakh tonnes
- at Madukkara (Tamil Nadu) — 1 lakh tonnes
- at Ghugus (Maharashtra new) — 4 lakh tonnes
- (6) Digvijay at Sikka (Gujarat) — 2 lakh tonnes
- (7) Kalyanpur at Banjari (Bihar) — 2 lakh tonnes
- (8) Chettinad at Karur (Tamil Nadu) — 4 lakh tonnes

Expansion Programme						(Lakh Tonnes)
Increase in installed capacity	1966	1967	1968	1969	1970	Expansion between 1966-70
Substantial Expansion of existing factories	3.60	4.15	16.34	27.48	4.93	56.50
New Factories	2.00	4.00	9.80	8.00	25.00	48.80
Total	5.60	8.15	26.14	35.48	29.93	105.30

Note :—Total installed capacity of member companies on 31st December 1965 was 116.96 lakh tonnes.

Source :—Quarterly Journal of The Cement Manufacturers' Association.

WAGE BOARD

The Centre has accepted all the major recommendations of the Second Wage Board for the Cement Industry. The Wage Board had estimated the additional burden involved in the implementation at Rs. one crore.

An agreement has been reached by the managements and workers at the instance of the Union Labour Minister, by which over 11,000 workers were to get their increments irrespective of the ceiling recommended by the Wage Board.

CHEMICAL & PHARMACEUTICAL INDUSTRY

FOR purposes of industrial production, chemicals fall easily into one of two major groups: (a) Heavy Chemicals; and (b) Fine Chemicals.

According to the latest data, there are over 650 factories with a productive capital of nearly Rs. 423 crores and providing employment for about 1.6 lakh workers.

SULPHURIC ACID

The installed capacity and production of sulphuric acid since 1964 are shown below :

(’000 tonnes)

Year	Capacity	Production
1964	1,012	679
1965	1,082	685
1966	1,328	674
1967	1,583	804

The table below shows the achievement in the last two years and the target for 1968-69.

(in ’000 tonnes) (target)

1966-67		1967-68		1968-69	
C	P	C	P	C	P
1,353	702	1,826	775	1,900	1,100

Note : C means Capacity and P means Production.

The scheme for the mining of 2,40,000 tonnes of pyrites and the establishment of a 400 tonnes per day sulphuric acid plant at Sindri are under implementation. The total outlay on this project during 1966-67 and 1967-68 was Rs. 4.9 crores and an additional outlay of Rs. 4.2 crores was envisaged during 1968-69.

India imported sulphuric acid of the value of Rs. 1,21,690 in 1964-65, Rs. 47,867 in 1965-66, Rs. 37,295 in 1966-67 and Rs. 12,887 in 1967-68.

Some exports are also taking place. India exported sulphuric acid worth Rs. 84,054 in 1964-65, Rs. 71,405 in 1965-66, Rs. 16,337 in 1966-67 and Rs. 38,809 in 1967-68.

ALKALI INDUSTRY

The alkali industry comprises the manufacture of soda ash and caustic soda, sodium bicarbonate, bleaching powder, benzene hexachloride, liquid chlorine and zinc chloride.

At the beginning of the Third Plan, production of soda ash was 1,48,000 tonnes. The estimated actual production in 1967-68 was 3,60,000 tonnes. The target for 1968-69 was 4,00,000 tonnes.

The trend of production of soda ash in metric tonnes is as under :—

1964 : 2,82,408 ; 1965 : 3,21,972 ; 1966 : 3,49,608 ; 1967 : 3,55,836.

The figures of imports of soda ash during the last few years are given below :

Year	Q	V
1964-65	33.47	60.01
1965-66	35.60	78.65
1966-67	1.03	4.59
1967-68	4.05	13.55

Q : Quantity in million kilograms. V : Value in Rs. lakhs.

In 1967, the production in tonnes of hydrogen peroxide was 2,676 as against 2,784 in the previous year. During 1967-68, India imported 33,494 kilograms of hydrogen peroxide valued at Rs. 1,20,785. U.S.A. and Netherlands were the principal suppliers.

Caustic Soda.—There were at the end of 1967, 27 units manufacturing caustic soda.

Actual indigenous production of caustic soda and the associated chemicals has been as under :—

Year	Caustic Soda	Liquid chlorine	Bleaching powder
1964	1,84,020	50,580	7,932
1965	2,14,956	51,012	7,356
1966	2,30,688	63,048	10,812
1967	2,51,376	78,132	9,252

Imports of caustic soda were : 1964-65 : 67.12 million kgs.; 1965-66 : 74.21 million kgs.; 1966-67 : 14.16 million kgs. and 1967-68 : 8.07 million kgs.

During the Third Five Year Plan, the installed capacity of the industry rose from 1,26,000 tonnes in 1960-61 to 2,77,000 tonnes in 1965-66, and actual production from 99,000 tonnes to 2,18,000 tonnes. The estimated installed capacity and production in 1967-68 were 3,78,000 and 2,60,000 tonnes respectively.

The capacity and output were likely to reach 4,00,000 tonnes and 3,00,000 tonnes respectively in 1968-69.

MISCELLANEOUS CHEMICALS

The progress of production of important miscellaneous chemicals during the period 1964 to 1967 is given below.

Name of product	1964	1965	1966	1967
Bichromates	6,984	6,852	6,876	6,936
Copper Sulphate	4,764	3,252	3,600	2,664
Sodium Sulphide	2,132	3,432	3,720	3,660
Hydrogen Peroxide	2,700	2,472	2,784	2,676
Potassium Chlorate	3,672	3,804	4,104	4,104
Sodium Bicarbonate	10,752	12,804	13,704	19,680
Hydrochloric Acid	23,136	32,268	29,016	33,084
Nitric Acid	11,688	15,348	16,836	14,376
Sodium Sulphate	32,976	36,708	42,780	46,428
Sodium Aluminate	965	702	728	872
Nickel Sulphate	497	464	463	559

In 1967, installed capacity and production in tonnes of hydro-sulphate of soda stood at 7,812 and 4,282 respectively.

FERTILISERS

Nitrogenous Fertilisers

The following table shows the details of installed capacity of nitrogenous fertilisers as on 30-9-1968.

(metric tons)

Ammonium sulphate	203,720
Ammonium sulphate nitrate	31,700
Calcium ammonium nitrate	200,000
Urea	283,210
Ammonium chloride	16,410
Grand Total	735,040

Source : Fertiliser Statistics, 1967-68.

The year-wise production of nitrogenous fertilisers and the capacity at the beginning of each year are as under : (Tonnes)

Year	Capacity	Production
1964	193,968	125,796
1965	399,828	243,000
1966	503,880	255,756
1967	676,176	328,812

Imports of nitrogenous fertilisers amounted to 14,11,470 tonnes in 1966-67 and 15,54,601 in 1967-68.

For details about public sector projects for the development of fertilizers see "Fertilizer Corporation of India Ltd." and "Fertilizers and Chemicals Travancore Ltd."

The following table shows the year-wise consumption of nitrogenous fertilisers :

Year	Consumption
1964-65	434
1965-66	547
1966-67	839
1967-68	1,052
1968-69 (likely)	1,500

PHOSPHATIC FERTILISERS

The progress in the manufacture of phosphatic fertilisers is given below :

(Figures in tonnes of single superphosphate)

	Capacity	Production
1964	1,41,672	1,17,948
1965	1,47,480	1,14,924
1966	2,30,352	1,36,968
1967	2,80,812	1,81,812

The capacity of phosphatic fertiliser in India in 1967-68 was 3,93,000 tonnes. It was proposed to raise it to 4,14,000 tonnes in 1968-69.

Imported raw materials, rock phosphate and sulphur are used for the manufacture of single superphosphate. The following are the quantities and value of imported rock phosphate during the last few years :

	Quantity ('000 tons)	Value (Rs. crores)
1964-65	426.3	3.74
1965-66	565.7	5.56
1966-67	857.1	13.17
1967-68	604.0	9.33

Potassic Fertilisers : Potassic fertilisers are produced indigenously in the small scale sector and the annual production is estimated to be around 2,000 tons as muriate of potash.

Imports of Potassic Fertilisers
1965-66 to 1967-68

(metric tonnes)

Year/country from which imported	Muriate of potash ¹		Sulphate of potash ² (50% K ₂ O)
	(60% K ₂ O)	(50% K ₂ O)	
1965-66			
France ..	—	—	3,668
Germany East	70,274	4,280	—
Germany West	40,297	—	578
Italy ..	—	—	3,519
U.K. ..	35,327	—	—
Total: 1965-66	145,898	4,280	7,765

(metric tonnes)

Year/country from which imported	Muriate of potash ¹		Sulphate of potash ² (50% K ₂ O)
	(60% K ₂ O)	(50% K ₂ O)	
1966-67			
Canada ..	10,736	—	—
France ..	—	—	4,877
Hungary ..	21,454	—	—
Germany East	102,837	29,597	5,000
Germany West	—	—	10,022
Italy ..	—	—	4,753
U.K. ..	46,920	—	—
U.S.S.R. ..	13,940	—	—
Total: 1966-67	195,887	29,597	24,652

(metric tonnes)

Year/country from which imported	Muriate of potash ¹		Sulphate of potash ² (50% K ₂ O)
	(60% K ₂ O)	(50% K ₂ O)	
1967-68			
Canada ..	74,603	—	—
France ..	27,527	—	—
Germany East	104,296	17,617	—
Germany West	30,006	—	—
Norway ..	145	—	—
U.S.A. ..	78,757	—	—
U.S.S.R. ..	3,573	—	—
U.K. ..	99,950	—	—
Total: 1967-68	418,857	17,617	—

The production of ammonium sulphate: 1965: 82,944 tonnes; 1966: 86,388 tonnes and 1967: 8,12,816 tonnes.

Though the production of nitrogenous fertilisers has been stepped up in recent years it has been necessary to import large quantities of nitrogenous fertilisers because of increasing demand. India imported Rs. 20.5 crores in 1964-65; Rs. 31.80 crores in 1965-66; Rs. 68.97 crores in 1966-67 and Rs. 75.93 crores in 1967-68.

Imports of ammonium sulphate were: 1964-65: 453,140 tonnes; 1965-66: 839,860 tonnes; 1966-67: 998,899 tonnes and 1967-68: 879,648 tonnes.

Sources: ¹ Indian Potash Supply Agency Ltd., Madras. ² Established Importers.

Chemical	Production			
	1965	1966	1967	Main uses
Acetic acid (thou- sand kgs.) ..	7,932	9,000	9,600	Rayon, white lead, lead, acetates, dyeing rub- ber.
Acetone (tonnes)	816	1,524	912	Solvent ex- plosives
Benzene (thou- sand litres) ..	24,109	21,038	21,999	Solvent.

FINE CHEMICALS

The term "fine chemicals" is applied usually to substances such as photographic materials, drugs and pharmaceutical products, paints, pigments and varnishes, and dyestuffs. All the figures given below are in tons per annum except where otherwise stated.

Production of bromide and bromine respectively in '000 kgs. for the latest three years is as under: 1965: 12; 192; 1966: 96; 156; 1967: 36; 156.

Photographic Materials—The basic chemical required for the photographic industry are: (i) gelatin, silver halides and sensitizers in the coating of film, plate and paper base, and (ii) hypo-sodium sulphate metal, hydroquinone and chrome alum in the processing stages.

Hindustan Photo Films Manufacturing Co., Ltd., was incorporated in Nov. 1960, with an authorized capital of Rupees 5.5 crores to implement the project for the manufacture of raw films, photographic films, X-ray films and other sensitized materials in collaboration with Messrs. Banchet & Co., France. The total cost of the project is estimated at Rs. 11.6 crores. The factory has now commenced production.

PAINTS AND VARNISHES

There are at least 200 factories manufacturing paints and varnishes, but nearly 150 of them are very small in size. The bigger ones are concentrated in Bombay and Calcutta. Nineteen units with a capacity of 39,500 tons are in West Bengal, and 23 with an annual capacity of 34,000 tons are in Maharashtra. Manufacture of ship bottom paints has been commenced by a unit in Calcutta. Another unit in Bombay has been allowed technical collaboration for marine paints.

The annual national loss due to corrosion of iron and steel is estimated at Rs. 60 crores.

A wide variety of products including different kinds of paints, varnishes, enamels, lacquers, and other types of surface coating materials are manufactured by the industry which uses mainly indigenous and some imported raw materials. The important raw materials used are zinc oxide, white lead, titanium dioxide, red lead, yellow and green chrome pigments, carbon black linseed oil, etc. The industry contributes substantially to the national exchequer in the form of taxes, excise duty, customs duty, etc.

The capacity of the paints, varnishes and enamels industry has recently been reassessed by the Development Wing of the Ministry of Industry at about 85,000 tons. The State-wise distribution of the reassessed capacity is as follows: the first figure indicates the number of factories and the second the annual capacity in tons: Maharashtra 23; 34,000; West Bengal 19; 39,500; Uttar Pradesh 5; 8,100; Madras 3; 2,000; Delhi 2; 1,000; Andhra Pradesh 1; 300; Total 53; 84,900.

The production of paints, varnishes, zinc oxide, white lead, red lead and nitrocellulose lacquers including ancillaries from 1965 onwards is given below :

Year					Paints & Varnishes	White Lead†	Zinc Oxide	Red Lead	Nitrocel- lulose Lacquers
					(a)	(b)	(a)	(a)	(c)
1965	..	..	..	..	5,889	643	785	193	179
1966	..	..	..	..	5,655	481	484	152	173
1967	..	..	..	..	6,625	414	625	286	162

Note : Figures are monthly averages. (a) Thousand kg. (b) Tonnes. (c) Thousand Litres. † Annual production.

There has been a marked improvement in exports of Indian paints to Middle East and African countries. Exports of pigments, paints, varnishes and related materials amounted to Rs. 165 lakhs in 1967-68 compared with Rs. 80 lakhs in 1966-67.

DRUGS AND PHARMACEUTICALS

Drugs and pharmaceuticals cover a large variety of products from simple extracts of vegetable drugs and glandular preparations to highly complex synthetic drugs and antibiotics.

There are nearly 2,800 production units producing pharmaceuticals and drugs, licensed under the Drugs Act. Out of these, only 125 large-scale units are licensed under the Industrial Development and Regulation Act.

The following are the principal fields in which progress has been remarkable: Penicillin, Streptomycin and Dihydrostreptomycin, Tetracycline, Chloramphenicol, synthetic drugs, vitamins, synthetic hormones, glandular products and vaccines and sera.

Most manufacturers in the organised sector have collaboration arrangements with well-known pharmaceutical firms in England, America, Switzerland, Germany, Italy, the U.S.S.R., etc.

The total capital investment in this sector has sharply risen from Rs. 560 million in 1962 to over Rs. 1,500 million in 1967. These units employ about 40,000 workers, out of whom about 4,000 are technically trained.

Output of drugs in 1968-69 was expected to be around Rs. 235 crores as against Rs. 210 crores in 1967-68. In India the entire research expenditure on health problem is estimated at around Rs. 30 million including the governmental and private expenditure. Of this, a total of about Rs. 12 to 15 million is spent on doing research in the private and the public sectors.

Development in the Public Sector

See "Hindustan Antibiotics Ltd.," "Hindustan Insecticides Ltd.," Indian "Drugs and Pharmaceuticals Ltd.," and "Drug Research Laboratories" for more information on drugs.

Total exports of medical and pharmaceutical products in 1966-67 and 1967-68 were Rs. 3.77 crores and Rs. 3.33 crores respectively.

Notable rise in production has been registered in respect of anti-TB (PAS and its salts and INH), anti-pyretic (Aspirin) and antidiabetic (Tolbutamide) drugs, and other items like nikethamide.

Synthetic production of prednisolone, an important corticosteroid hormone has been established from indigenous dioscorea deltoidea roots. Production has commenced for the first time of items like hydroxocobalamin (vitamin B-12) promethazine, an antihistamin drug, while additional capacity has been established for the production of streptomycin with the commencement of production by one unit in Gujarat State. Additional capacity has also been established for the antidiabetic drug (tolbutamide) Vitamin B12 and thiacetazone. One unit for the production of the antidiabetic drug insulin starting from pancreas glands has been established in Maharashtra State. Another unit which has so far been manufacturing sulpha drugs based on imported intermediates has set up a basic manufacturing plant for the purpose. A new undertaking has been established very recently for the manufacture of PAS and its salts particularly its benzoyl derivative.

With the completion of the antibiotics and synthetic drug factories at Rishikesh, Madras and Sanatnagar in 1966-67 a very substantial increase in the output of essential drugs has been achieved.

Production : The important items of production in the public sector, e.g., penicillin and D.D.T. recorded increased output as shown below :

Year					Penicillin million mega units	D.D.T. (tons)
1965	..	..	..	..	102.84	N.A.
1966	..	..	..	..	123.48	N.A.
1967	..	..	..	..	128.88	N.A.

N.A. Not available.

Monthly average production of drugs during 1966 and 1967 is given below :

		Unit	1966	1967
1.	Liver Extract :			
	(i) Injection	'000 cc.	3,788.1	3,053.1
	(ii) Oral	'000 kg.	16.0	15.7
2.	Anti-dysentery drugs	kg.	7,348.0	6,441.0
3.	Nikethamide	kg.	553.0	379.0
4.	I. N. H. ..	'000 kg.	4.7	3.3
5.	P. A. S. ..	'000 kg.	26.8	20.0
6.	Vitamin A ..	MMU	1.7	2.1

The following statement shows the year-wise value of important categories of drugs and pharmaceuticals imported during the latest two years :

		Rs. in lakhs.	
Item		1966-67	1967-68
<i>Antibiotics</i>			
Aureomycin		11.69	1.97
Chloromycetin		73.23	48.83
Penicillin		61.29	70.76
Streptomycin		4.58	155.36
Terramycin		4.60	1.43
Other antibiotics		83.91	70.48
TOTAL		239.30	348.83
Vitamins		197.68	223.69
Antimalarial drugs		32.46	15.68
Sulpha drugs		114.37	87.32
Proprietary and patent medicines		39.91	56.96
Other drugs and pharmaceutical products		1,356.08	1,368.27
GRAND TOTAL		1,979.80	2,100.75

D.D.T. and B.H.C. are the two of the most important insecticides. Hindustan Insecticides Ltd., a public sector undertaking went into production in March 1955. In addition to the expansion of public sector projects under Hindustan Insecticides additional production of DDT and BHC is envisaged at the Hindustan Organic Chemicals and Gujarat Petro-Chemical complex.

The annual capacity and production of D.D.T. and B.H.C. are set out in the following table :

		('000 tonnes)			
Year		D.D.T.		B.H.C.	
		Capacity	Production	Capacity	Production
		(1)	(2)	(3)	(4)
1966-67 ..		2.8	3.1	9.2	8.1
1967-68 ..		2.8	3.1	11.8	8.7
1968-69 (likely) ..		2.8	3.3	26.5	12.5

COFFEE INDUSTRY

COFFEE cultivation is mainly confined to the hilly tracts of south India, from one thousand feet to six thousand feet above the mean sea level, and is centred in the Malnad area of Mysore, Tamil Nadu and Kerala. In the lower elevations, which have a higher rainfall, the more delicate but better quality Arabica coffee has given place to the harder but coarser Robusta coffee.

The average daily number of persons employed during 1964-65 was 2,36,295 (exclusive of Andhra Pradesh).

There are only two types of coffee grown on commercial scale in India, the one most extensively cultivated being Coffee Arabica and the best in quality, with Robusta coming next in importance. About 50 species and sub-species of coffee are being grown in the Coffee Board's research stations. Many of the coffee estates are interplanted with orange, cardamom and pepper.

The area and production from 1962-63 of the two varieties of coffee are as under :

AREA IN THOUSAND HECTARES

Year	Arabica	Robusta	Total
1962-63	73	53	126
1963-64	75	54	129
1964-65	78	52	130

PRODUCTION IN M. TONNES

Year	Arabica	Robusta	Total
1963-64	39,051	30,269	69,320(R)
1964-65	42,290	18,725	61,015
1965-66	38,275	25,600	63,875
1966-67	41,620	36,855	78,275
1967-68	37,500	19,500	57,000
1968-69	45,000	25,000	70,000

R = Revised.

The final receipts of 1964-65, 1965-66, 1966-67 coffee crops and receipts upto 15-2-'68 in respect of 1967-68 crop (inclusive of gains-in-weight) are as under :

(In tonnes)

Season	Plantation	Ar. Cherry	Robusta	Total
1964-65 ..	31,200	10,920	18,490	60,610
1965-66 ..	24,925	13,155	23,365	63,445
1966-67 ..	27,475	14,079	36,460	78,014
1967-68 ..	25,333	11,900	19,480	56,713

The receipts of 1968-69 crop into the pool up to Dec. 15, 1968 amounted to 56,713 tonnes compared with 77,765 tonnes for the corresponding period of last year.

The following table gives the trend of exports :

Year	Exports in Metric Tons*
1963-64	33,005
1964-65	23,003
1965-66	28,843
1966-67	35,074
1967-68	29,755†
	(allocation)

* Out of the season's crop.

† Released for export by the Indian Coffee Board.

There is no export duty on coffee at the moment.

COFFEE PRICES

The price of coffee realised in the export sales during the first five months of 1967 ranged from Rs. 270.50 to Rs. 283 per 50 kg. of Plantation A, Rs. 222 to Rs. 231 per 50 kg. for Arabica Cherry A B and Rs. 200 to Rs. 210.50 per 50 kg. for Robusta Cherry A B.

The annual average prices realised in the pool sales for each type of coffee from the year 1964 (in Rs. per 50 kg. inclusive of Central Excise Duty).

Year	Plantation 'A'	Arabica cherry Flats/ Arabica cherry AB	Robusta cherry Flats/ Robusta cherry AB
		Rs. P.	Rs. P.
1964		268.48	225.32
1965		270.32	235.87
1966		334.20	296.49
1967		313.50	274.50

Under the Development Plan launched by the Board for increased production of coffee, a sum of Rs. 200.43 lakhs has so far been advanced to growers for different purposes as noted below (Rs. lakhs): 1. Long-term loans for intensive cultivation of small holdings 60.80; 2. Short-term loans for working capital 30.42; 3. Loans for acquiring essential equipment and machinery 107.09; 4. Long-term loans for replanting areas of old, uneconomic coffee 2.12; Total 200.43.

AVERAGE INDEX NUMBERS OF WHOLESALE PRICES OF COFFEE (Base 1952-53 : 100).

Year						Index
1964 .. ..	..	..	..	..	..	106.9
1965 .. ..	..	..	..	..	..	114.0
1966 .. ..	..	..	..	..	..	136.4
1967 .. ..	..	..	..	..	..	128.9

COFFEE BOARD

The Coffee Board is a statutory organisation constituted under the Coffee Act (Act No. VII of 1942), and functions under the administrative control of the Government of India in the Ministry of Commerce. The functions of the Board are as under :

- (1) the promotion of the sale and consumption in India and elsewhere of the coffee produced in India;
- (2) the promotion of agricultural and technological research in the interest of the coffee industry;
- (3) assistance to coffee estates for their development;
- (4) the securing of better working conditions and the provision and improvement of amenities and incentives for workers; and
- (5) the working of the measures enumerated in the Act relating to the operations of the surplus pool.

The Coffee Board consists of the Chairman and 32 other members representing the interests of coffee growers, the State Governments of Mysore, Tamil Nadu and Kerala, labour curing establishments, the trade and such other interests as in the opinion of the Central Government ought to be represented on the Board. The Board was re-constituted as from 10th July 1968 for a period of three years.

COIR INDUSTRY

COIR is the natural versatile golden fibre extracted from the husk, the outer covering of the coconut. 'Cocos Fibre' popularly known as Coir is classed among the Industrial Hard Fibres which enter the world market in the form of fibre, spun yarn, floor coverings, curled coir, rubberised coir products and rope.

India and Ceylon are the only two countries producing coir on a commercial scale. India accounts for about 55 to 60 per cent of the total production of the coir in the world. The coir industry is mainly confined to the coastal strip of Kerala. Annual production of coir fibre in the country is estimated at 1,60,000 tonnes.

Kerala accounts for 5.86 lakh hectares out of a total of 9.12 lakh hectares under coconut cultivation in India. The distribution of area under cultivation and production of coconuts for 1965-66 (latest available) is as follows:—

States	Area in '000 hectares			Production of nuts in thousands
Kerala	586	32,93,000
Mysore	124	3,43,506
Tamil Nadu	81	8,54,643
West Bengal	34	1,42,480
Andhra	33	2,87,932
Goa	19	81,985
Maharashtra	9	31,831
Andaman & Nicobar Islands	9	33,273
Orissa	9	33,229
Assam	4	11,158
Laccadive, Minicoy and Amindivi Islands	3	19,278

States	Area in '000 hectares			Production of nuts in thousands
Pondicherry	1	13,104
Gujarat	@	2,413
Tripura	@	200
Total	912	51,48,032

@ Negligible

Source : Regional Office, Coconut Development, Ernakulam.

On an average, India exports 46,000 tonnes of coir yarn out of the total production of 1,40,000 tonnes annually. 42,000 tonnes of coir yarn are used for the production of coir manufactures (including coir rope) annually. Export of coir fibre as such is only to the extent of 1,200 tonnes.

India's production of coir products and coir rope are estimated at 24,500 tonnes and 15,000 tonnes respectively. 75 per cent of the total production of coir products is exported to foreign countries. But only 7 per cent or less of the total quantity of coir rope produced is exported and the rest is consumed internally.

In the spindle spinning sector, there are about 24,000 units engaged in the production of coir yarn.

There are at present 1,468 industrial establishments registered with the Board under the Coir Industry (Registration and Licensing) Rules, 1958, engaged in the production of coir manufactures. But only 155 units are registered under the Factories Act in Kerala and the rest are mere cottage type establishments with one or two looms.

The industry provides employment for about 3 to 4 lakhs of people in the coastal strip where the density of

population is very high. The Kerala Government have fixed minimum wages in respect of both the sectors of the industry where hired labour is required.

The yarn produced in the different villages is being marketed chiefly in Alleppey, Cochin and Kozhikode. The manufacture of coir products is concentrated in and around Alleppey and a considerable share of the yarn brought from the producing centres is used for the production of coir floor coverings.

The Coir Board is responsible for the formulation of suitable measures to promote the growth of the industry on stable and healthy lines.

The Coir Industry Act gives powers to the Union Government to levy a cess on export of coir and coir products. At present the cess levied on coir fibre and yarn is at the rate of 98 paise per quintal. Nearly Rs. 4½ lakhs are collected under this head.

Recently as per the recommendations of the Board, the Central Government have issued orders notifying coconut husks (raw and retted) as an essential commodity under the Essential Commodity Act of 1955. In exercise of the powers conferred under section 3 of the Essential Commodity Act 1955 (10 of 1955) the Central Government have issued orders for the Licensing of Coir Retting places. These rules provide powers to the Government for the control of the price of husks. The State Governments of Kerala and Tamil Nadu were authorised to implement the scheme.

A Central Coir Research Institute was set up in Kalavoor, Alleppey in Kerala to carry on fundamental as well as applied research.

The Board also set up a National Coir Training and Design Centre to impart advanced and systematic training in the techniques of coir production. The Centre also conducts refresher classes to the executives of co-operative societies. This centre is also engaged in evolving novel designs. An extension service covering the various aspects of coir extraction, processing and manufacture especially spinning, dyeing and weaving has also started.

In order to compete with the products manufactured on powerlooms in West European countries, a policy decision has been taken to mechanise one third of the matting sector of the industry. Superior varieties of coir mattings in up-to-date designs and patterns to satisfy the sophisticated taste of the consuming public can be produced on powerlooms. A fully mechanised factory has been set up by the Coir Board. The total financial outlay is about Rs. 12 lakhs with a foreign exchange component of about Rs. 4.6 lakhs. Two other factories in the

private sector have also already commenced commercial production.

Diversified uses for which coir can be put are many. Efforts at diversification of coir products have been going on for some time now. The results are machine extracted fibre and rubberised coir products.

Already 22 defibering units and eight rubberised coir producing units have been commissioned in various parts of the country. Rubberised coir is extensively used in the manufacture of mattress, pillows, moulded cushions, upholstery parts, etc. Rubberised coir mattress is particularly useful for use in hospitals.

A scheme of Quality Control and Pre-shipment Inspection was introduced to prevent the shipment of inferior goods which once did some damage to the reputation of Indian coir products.

To achieve some sort of stability in price index floor prices have been fixed for the popular varieties of coir mats exported.

On an average export of coir and coir products used to earn about Rs. 12 crores (before devaluation) of foreign exchange, every year. The export earnings during 1967-68 amounted to Rs. 13.27 crores. The figures of export of coir and coir products during the year 1967-68 are given in the table at the end.

In order to expand the home market for coir and coir products, the Coir Board has opened show rooms and sales depots in important cities like Bombay, Calcutta, New Delhi, Madras, Bangalore and Ernakulam. The sales effected through these sales depots have increased year by year.

The Board had also appointed eleven accredited dealers in the towns of Trichur, Nagpur, Mangalore (A), Vijayawada, Udipi, Delhi, Mangalore (B), Bangalore, Kanpur, Daltaganj and Hyderabad, who will be given some financial assistance by meeting a part of the rent of the premises in which coir goods are displayed for sale. Few more will be appointed soon.

The outlay in the Fourth Plan for the coir industry as proposed by the Board is Rs. 5.3 crores, comprising Rs. 1.5 crores for centrally sponsored schemes to be executed by the Board direct and Rs. 3.8 crores for States and Union Territories schemes.

The State scheme also envisages the organisation of the industry on a co-operative basis. About 635 co-operative societies are now in position in different coconut growing states in India. Out of these 542 are in Kerala. Six of the societies in Kerala are directly engaged in the export trade.

EXPORT* OF COIR AND COIR GOODS FROM THE INDIAN PORTS

(Year — April–March)

Commodity	1965-66		1966-67		1967-68	
	Qty. (q)	Value (Rs.)	Qty. (q)	Value (Rs.)	Qty. (q)	Value (Rs.)
Coir Fibre	12,369	14,79,691	11,026	18,11,876	12,193	20,16,515
Coir Yarn	5,33,772	6,96,19,118	4,50,963	8,35,46,526	3,92,764	7,85,71,267
Coir Mats	1,52,378	3,15,57,428	1,49,850	4,38,47,480	1,37,922	4,20,38,270
Coir Mattings, Rugs and Carpets	32,359	68,19,776	28,214	82,26,962	27,041	82,45,244
Coir Rope	11,459	14,38,439	8,933	14,87,371	8,519	13,85,240
Curled Coir	—	—	—	—	3,118	4,31,268
Rubberised Coir products	—	—	—	—	2	1,069
Total :	7,42,337	11,09,14,452	6,48,986	13,89,20,215	5,81,559	13,26,88,873

Source:—Daily/Weekly lists of Exports issued by the Customs authorities.

* Total export of coir and coir products during the period April '68—January '69 amounted to 53,114 tonnes valued at Rs. 12.5 crores as against 47,325 tonnes worth Rs. 10.7 crores of coir and coir products exported during April '67—January '68 period. (q) : Quintals.

COTTAGE INDUSTRIES

VILLAGE AND SMALL INDUSTRIES

ACCORDING to the working definition adopted by the Government, small-scale industries include all industrial units with a capital investment not exceeding Rs. 5 lakhs irrespective of the number of persons employed. Financial assistance to small industries is given by the Government, State Financial Corporations and banking institutions including the State Bank of India. Recently, measures were taken to make this assistance more effective.

The data about employment are extremely meagre. It is, however, very roughly estimated that at least 24 million persons are gainfully employed in these industries classified as under :—

Name of Industry	Persons employed in lakhs.
Textiles	75
Leather	24
Wood	21
Metals	42
Pottery, Ceramics, Tiles, Bricks, etc. ..	20
Vegetable Oils, Chemical Products, etc. ..	10
Food including Hand-pounding	20
Dress and Toilet	11
Miscellaneous including jewellery and toy making	17
TOTAL ..	240
	(Estimated)

THE KHADI AND VILLAGE INDUSTRIES COMMISSION

The Khadi and Village Industries Commission's functions are to plan, organise and implement programmes for the development of khadi and village industries.

The Commission is a non-profit making body, depends upon the Government of India for its finance and its programmes form a part of the Five Year Plans and its annual demands form a part of the budget of the Government of India.

The Commission which has five members including the Chairman, Vice-Chairman and Member-Secretary, generally acts in consultation with the advisory Khadi and Village Industries Board. Members of the Commission: U.N. Dhebar (Chairman); K. Arunachalam (Vice-Chairman); Dhawaja Prasad Sahu; Somdutt; Akshay Kumar Karan (Member-Secretary).

The industries coming under the purview of the Commission are : (a) *Textile Industry* : khadi—cotton, woollen and silk ; (b) *Food Processing Industries* : processing of cereals and pulses, ghani oil, manufacture of canegur and khandsari, palmgur making and other palm products ; (c) *Mainly Forest-based Industries* : cottage match, cottage soap, manufacture of shellac, collection of forest plants and fruits for medicinal purposes, bamboo and cane work, manufacture of gum resins, manufacture of katha ; (d) *Other Industries* : handmade paper, beekeeping, cottage pottery, cottage leather, fibre other than coir, manufacture and use of manure and methane gas from cow-dung and other waste products, lime manufacturing, blacksmithy, carpentry, fruit processing and fruit preservation, manufacture of household utensils in aluminium.

The programmes for the promotion and development of all these industries are implemented in all the States through the statutory State Khadi and Village Industries Boards. There are State Boards in almost all the States. In a few States the Commission has departmentally undertaken the development of khadi and village industries. The Commission provides financial assistance in the shape of grants and loans and gives technical guidance and training also.

Institutional Progress

By the end of 1967-68 there were 678 registered institutions and 20,079 cooperative societies for khadi and village industries.

Production

The production of khadi (including silk, woollen and cotton) was of the value of Rs. 27.84 crores in 1966-67 and of Rs. 24.29 crores in 1967-68. The quantity of production was 785.59 lakh sq. metres in 1966-67 and 638.85 lakh sq. metres in 1967-68.

The value of production of village industries articles in 1967-68 was Rs. 74.13 crores as against Rs. 59.30 crores in 1966-67.

The following table shows the comparative details of production of khadi and village industries in 1966-67 and 1967-68.

Industry	(Rs. Crores)	
	1966-67	1967-68
Khadi	27.84	24.29
Processing of Cereals and Pulses ..	6.83	14.38
Village Oil	22.10	19.73
Village Leather	3.18	3.50
Cottage Match	0.19	0.20
Gur and Khandsari	10.66	21.80
Palm Gur	8.06	7.05
Non-edible oils and Soap	2.97	2.13
Handmade Paper	0.46	0.50
Beekeeping	0.64	0.74
Village Pottery	1.65	1.78
Fibre	0.95	1.10
Carpentry and Blacksmithy	1.34	0.94
Lime	0.18	0.17
Methane Gas	0.09	0.11
Total ..	59.30	74.13

Sales

Sales of different khadi and village industries products increased from Rs. 53.92 crores in 1966-67 (khadi Rs. 25.76 crores and village industries Rs. 28.16 crores) to Rs. 62.17 crores in 1967-68 (khadi Rs. 25.01 crores and village industries Rs. 37.16 crores).

The sales of khadi amounted to Rs. 25.01 crores during 1967-68 as against Rs. 25.76 crores in the previous year. The bulk of the sales was effected through bhandars and bhavans.

Employment in Khadi

During 1967-68, the khadi programme provided employment to 12.04 lakh spinners (10.31 lakh traditional, 0.93 lakh ambar, 0.03 lakh new model, 0.64 lakh wool

and 0.13 lakh silk), 0.92 lakh weavers and 0.40 lakh others. Thus the total number of persons employed in khadi was 13.34 lakhs.

Research

Grants have been made to promote research. The Commission's Central Research Institute for Village Industries at Wardha which is known as Jamnalal Bajaj Central Research Institute for Village Industries has been in the field for some time now. As a result of financial assistance by the Commission improved implements such as ambar belni, ambar charkha, dhunai modhia, improved ghanis and chakkis, all-metal neem seed decorticator-cum-pulveriser, hand-operated pocha-making machine and paddy sheller, hydraulic press for crushing edible oil seeds have been introduced opening out possibilities of raising the productivity and income of the persons employed.

Khadi Programme

The Commission disbursed Rs. 15.52 crores (Rs. 9.30 crores as grants and Rs. 6.22 crores as loans) for the development of khadi industry during 1967-68 as against Rs. 21.50 crores (Rs. 9.64 crores as grants and Rs. 11.86 crores as loans) in 1966-67.

AMBAR CHARKHA PROGRAMME

The two schemes, traditional charkha and ambar charkha, have been in operation side by side. A new model all-metal six spindle charkha, designed by the Prayog Samiti of the Sarva Seva Sangh and manufactured by the Textool Company at Coimbatore is now in operation. The charkha which has now two models—Coimbatore and Rajkot—is capable of fetching a wage of Rs. 2 for eight hours' work. At the end of 1967-68, about 2,500 new model charkhas (Coimbatore model) were in operation in 100 centres throughout the country.

During the year 1967-68 production of ambar cloth was 189.48 lakh sq. mtrs., traditional khadi was 353.06 lakh sq. mtrs. and khadi produced from the yarn of new model charkha was 20.78 lakh sq. mtrs. The total production of cotton khadi thus amounted during 1967-68 to 568.68 lakh sq. mtrs. valued at Rs. 17.44 crores.

HANDLOOMS

The handloom industry provides gainful employment to a large number of rural craftsmen and helps to preserve their traditional art.

Production : The aggregate production of cotton textiles increased from 7,299 million metres in 1963 to 7,719 million metres in 1964 and to 7,643 million metres in 1965. The production declined to 7,336 million metres in 1966. The estimated production of handloom and powerloom cloth works out to 3,056 million metres in 1965 and 3,097 million metres in 1966.

Handloom Co-operatives : There were 13.89 lakh looms in the Co-operative fold as on 31st March, 1966. This is nearly 50 per cent of the known size of the industry. Similarly the number of weavers' cooperative societies has increased from 9,870 in 1957-58 to over 12,163 with 12.79 lakh weaver members and 13.89 lakh looms at present. Under the scheme of Handloom Finance of the Reserve Bank of India the credit limits sanctioned have risen from Rs. 180.19 lakhs in 1957-58 to Rs. 589.65 lakhs in 1964-65.

The Reserve Bank of India continued to provide accommodation to State Co-operative Banks on behalf of Apex Weavers' Co-operative Societies under section 17(2)(a) or 4(c) of the R.B.I. Act at the bank rate for purchase and sale of yarn.

Marketing : All India Handloom Board has taken several steps for aiding the marketing of handloom products. This aid has brought into being 1,822 sales depots, 53 inter-state sales depots, 61 central depots, and 46 mobile-vans. Government have also provided a subsidy to mitigate to a certain extent the lag between the competitive capacity of the mill industry and the handloom industry. Publicity and propaganda measures like holding of fashion shows, participation in exhibitions, release of press advertisements, bringing out posters, brochures, pamphlets and folders etc., setting up kiosks at airports, erection of hoardings, issue of souvenirs on cloth etc., screening of cinema slides, documentaries and observance of the annual handloom week have helped to focus the attention on the industry and to create handloom mindedness.

Exports : India's handloom products have always had fame and pride wherever attractive textiles are prized. In recent years, in the face of growing competition from mills within and products of other countries like China, Japan etc., exports of handlooms have declined gradually.

The aggregate value of exports of handloom fabrics in each of the years 1962 to 1966 is : 1962 Rs. 10.14 crores ; 1963 Rs. 14.28 crores ; 1964 Rs. 13.18 crores ; 1965 Rs. 15.26 crores ; 1966 Rs. 11.24 crores.

The highest level of exports was reached in 1965 and this was mainly due to the phenomenal increase in the exports of handwoven fabrics known as "Bleeding Madras", which alone accounted for Rs. 6 crores. It is seen from a study of the destination-wise exports to some of the leading countries in the above years that the maximum exports are now to our traditional markets only viz., countries such as Singapore, Aden, Nigeria, Malaysia etc. While our exports to the U.S.A. have declined sharply, countries like Sweden and West Germany have started importing more of handloom fabrics, particularly silk.

The Handloom Export Promotion Council has been trying to locate the impediments which stand in the way of increasing the exports of handwoven fabrics and how best they could be solved.

Technical Improvement and Research

Technical improvement is the basic requirement for the development of an industry. With a view to increasing the productivity of the handloom weavers, financial assistance is provided to weavers' co-operatives to replace out-moded tools by efficient ones, for the introduction of improved looms, jacquards, dobbies etc., as also for setting up dye-houses, finishing and calendering plants, pattern making factories etc. Under the above assistance, 547 dye-houses, 38 pattern making and 12 finishing plants were working during 1966. Of the 16 co-operative spinning mills proposed 10 mills have started production of yarn of various counts.

The All India Handloom Board has set up Weavers' Service Centres at Bombay, Madras, Calcutta, Varanasi, Mangalagiri (A.P.), Indore, Bangalore and Kancheepuram. These Centres have been concerned with the gearing together of the channels of communication that carry the results of research to the production unit and so enable it to function with precision and vitality. This, it is attempting to accomplish through (a) Setting up of workshops and laboratories undertaking applied research in the field of dyes, designs and technical problems of yarn and structure ; (b) By establishing a two way channel of communication between the Weavers' Service Centres and production units through (i) Short term training courses and (ii) by sending out technical personnel to

weaving centres ; (c) By helping to establish links between production units and the agencies concerned with the internal and external marketing.

These centres have well developed Artists' studios, dyes laboratories and libraries.

The two Indian Institutes of Handloom Technology at Salem and Varanasi continued to train candidates for the diploma courses in Higher Handloom Technology. The candidates who were successful in the diploma course have secured employment. The institutes continued the short term course for training of weavers in improved methods of production. They also rendered technical assistance in many directions to the handloom interests.

VILLAGE OIL

India is the second largest producer of oilseeds in the world and leads all other countries in respect of acreage under oilseeds.

Mills and ghanis are the two sectors in the oil industry in the country.

There are over 8,201 oil mills in the country.

The Village Oil Industry i.e. ghanis brought under its fold provided employment to 0.21 lakh full-timers during the year 1967-68. Besides, 12,510 part-time workers and 1,946 casual workers also found employment in the industry. The total earnings of these workers during the year (1967-68) was Rs. 174.44 lakhs.

During 1967-68, the expenditure incurred by the Commission for the development of the industry amounted to Rs. 164.89 lakhs of which Rs. 13.15 lakhs constituted grants and Rs. 151.74 lakhs loans.

There were 4,840 agencies operating various schemes under the Commission's purview of which 4,330 were co-operative societies and 510 were registered institutions.

During 1967-68, the production of oil through the registered ghanis was 3.91 lakh quintals valued at Rs. 1,600.10 lakhs and 6.04 lakh quintals of oil cake valued at Rs. 364 lakhs. The sales of oil and oil cake amounted to 3.65 lakh quintals and 5.36 lakh quintals respectively. The respective values of oils and oil cake sold were Rs. 1,533 lakhs and Rs. 344 lakhs.

Under the training programme the Commission trained 52 telis in the States of Assam, Gujarat and Madhya Pradesh during 1967-68.

PROCESSING OF CEREALS AND PULSES

The Rice Milling (Regulation) Act was passed in May 1958, which was amended during 1967-68.

The main features of the amended Act are : (i) provision for regulating the operation of hullers surreptitiously attached to oil engines, flour mills, agricultural pump sets, etc. ; (ii) restriction on polish beyond 4 per cent ; and (iii) restrictions on the starting of defunct rice mills and hullers.

In pursuance of the decisions taken at the meeting of Planning Commission and the Khadi and Village Industries Commission, the Union Food and Agriculture Ministry issued suitable instructions to the State Governments for relaxing price control in favour of handpounded rice. The Khadi and Village Industries Commission also took up with the various State Governments the question of ensuring adequate supply of levy paddy to the handpounding units of the Commission for milling as agents of Government. However the problem of ensuring adequate supply of raw material continued to be acute in some of the rice growing states.

The disbursement during the year was Rs. 99.03 lakhs of which Rs. 13.58 lakhs were grants and Rs. 85.45 lakhs were loans.

To enable the artisans obtain higher production of better rice, the Commission distributed during the year 6,093 atta chakkis, 2,979 paddy chakkis, 393 winnowing fans, 83 dhenkis, 227 Qualite paddy dehuskers and 89 gear shellers.

Under the production programme, 7.29 lakh quintals of paddy valued at Rs. 436.75 lakhs were dehusked during 1967-68. The industry provided employment to 43,436 persons in 1967-68 out of whom 9,342 were full-time workers and rest part-time workers. They earned respectively Rs. 15 lakhs and Rs. 13.10 lakhs. During the year the Commission's Central Training Institute at Wanakbori (Gujarat) imparted training to 59 persons and the regional vidyalayas to 77 persons.

BEE-KEEPING INDUSTRY

With a view to organising and developing collection of honey on scientific lines the Commission distributes bee-hives on a subsidised basis, finances, rearing and distribution of bee-colonies, collection and marketing of honey, organises co-operative societies and trains apiarists, fieldmen, farmers and others in the art of bee-keeping.

Rs. 20.63 lakhs were disbursed in 1967-68 of which Rs. 17.61 lakhs formed grants, the remaining being loans.

During 1967-68, as many as 19,889 bee boxes and 532 honey extractors were distributed at subsidised rates. Under the programme 14.68 lakh kgs. of honey was collected in 1967-68 as against 12.78 lakh kgs. collected in 1966-67 and the whole of it was marketed. During the year 22 fieldmen were trained. The total number of villages covered by the end of March 1968 was 23,764.

HAND-MADE PAPER INDUSTRY

The hand-made paper industry, as being developed by the Commission, aims at utilising easily available raw materials like fibre, old gunny bags, rags, straws, grasses, waste paper etc. The programme of development consists of assisting in the setting up of big, medium, small and school units.

During 1967-68 the Commission disbursed Rs. 16.09 lakhs for the development of hand-made paper industry. The financial disbursement to various types of units depends upon the capacity to produce paper. Up to the end of 1967-68 the Commission had allotted 13 big, 113 medium and 132 small units. In addition to this, 24 home units, 11 jail units and 15 units to individual artisans also had been allotted.

The production of paper rose from 2,422 metric tonnes valued at Rs. 45.51 lakhs in 1966-67 to 2,609 metric tonnes valued at Rs. 50.21 lakhs in 1967-68. The industry provided employment to 3,890 full-time workers, 686 part-time workers and 134 casual workers during 1967-68, their total wage bill being Rs. 18.10 lakhs.

NON-EDIBLE OILS AND SOAP

India possesses large quantities of a wide variety of non-edible oilseeds, e.g., neem, karanja, maroti, dupa, castor, undi, etc. The oils extracted from these seeds are highly valued as industrial oils.

During 1967-68 the Commission financed the programme to exploit the vegetable oilseeds to the tune of Rs. 82.92 lakhs of which Rs. 73.14 lakhs were loans and Rs. 9.78 lakhs grants.

To intensify efforts in improving production of non-edible oils, Oil Producing Units have been organised.

During 1967-68 about 170 seed collection units, 125 oil production units and 313 soap production units reported production. As many as 434 institutions were engaged in production activities during the year.

The production of non-edible oil during the year 1967-68 was 12.79 lakh kgs. valued at Rs. 36.54 lakhs. The value of soap produced in 1967-68 was Rs. 136.98 lakhs as against Rs. 159.64 lakhs in 1966-67, the quantities being 66.63 lakhs kgs. and 80.73 lakh kgs. respectively. The industry provided employment to 594 full-time workers and 1,13,169 part-time workers in 1967-68.

PALM-GUR

In India, there are four varieties of sugar-yielding Palms—Date, Palmyra, Coconut and Sago. While the total number of tappable palms in the country, mostly Date and Palmyra, is estimated at over five crores, only about 170 lakh palms are being tapped for the manufacture of palm-gur.

The significance of the Palm-Gur Industry in India lies in the manufacture of gur and sugar from the sweet juice of palms, popularly known as *neera*, in providing seasonal employment on a large scale, and in its effects on subsidiary occupation as in the manufacture of products from palm leaf.

The Commission has established a Central Research-cum-Training Centre at Dahanu (Maharashtra). Research in the preservation of *neera*, better processing methods and improved implements is being carried on.

For the development of the industry the Commission provided Rs. 35.11 lakhs during the year 1967-68. The aggregate number of trees tapped during the year was 170.68 lakhs as against 104.42 lakhs in 1966-67.

There were 3,303 cooperative societies having a membership of 3.67 lakhs operating under the industry in 1967-68 as against 3,507 cooperative societies with a membership of 3.93 lakhs in 1966-67.

During 1967-68 the total number of persons trained were 2,841. The production of palmgur during the year was valued at Rs. 652.29 lakhs. In addition to palm-gur, palm sugar and other edible and non-edible articles from palm trees were also undertaken and the total value of these during 1967-68 was Rs. 52.23 lakhs. The total sale proceeds from the industry during the year was Rs. 799.09 lakhs. The industry provided employment to 3.02 lakh persons who earned Rs. 402.09 lakhs as wages.

GUR AND KHANDSARI

With a view to improving the quality of Gur, production of Khandsari and the efficiency of the farmers, the Commission has schemes to introduce improved equipment like crushers, centrifugals, pans, furnaces etc. The Commission also undertakes to train honorary workers and farmers in better methods of production with the help of improved equipment. The programme aims also at the organisation of co-operative societies to take up production and marketing of Gur and Khandsari and stocking and supplying of improved implements.

At the end of 1967-68, there were 1,056 co-operative societies and registered institutions engaged in the industry. During the year the Commission distributed 1,017 bullock-driven units and 9 power-driven units. The Commission constructed during the year 4,892 new furnaces and repaired 4,507 old ones.

The production of gur and khandsari during the year was 15.40 lakh quintals and 8,000 quintals respectively, the total value of production of both being Rs. 21.79

crores. The entire gur and khandsari produced was sold during the year. The industry provided employment to a total number of 73,045 persons in 1967-68 who earned Rs. 158.22 lakhs as wages.

VILLAGE LEATHER INDUSTRY

The processing of hides and skins and the manufacture of leather goods are traditional village industries.

The object of the development programme of the Commission for the industry is the planned recovery and full utilisation of the various parts of dead animals so as to minimise waste and provide large-scale employment. There is a vast livestock population consisting of over 22.6 crores cattle and 10 crores sheep and goats.

The programme consists of the establishment of flaying centres, flaying platforms, village tanneries, glue manufacturing centres, bone crushing units, chrome tanning units, retanning of bag tanned sole leather units, foot-ware units and leather goods units. The Commission is the first organisation in the country to take up chrome tanning in the villages. Eight such units have already been set up and are working properly.

To assist the Commission there is an Advisory Committee consisting of representatives of this industry and trade.

During 1967-68, Rs. 32.04 lakhs were disbursed for the development of the industry of which Rs. 12.40 lakhs were grants and Rs. 19.64 lakhs loans.

During the year 48 and 85 persons were trained in the Arts of tanning and carcass utilisation respectively. As against the production of goods valued at Rs. 317.60 lakhs in 1966-67, the production in 1967-68 was valued at Rs. 350.18 lakhs. During 1967-68, as many as 13,175 full-timers and 7,066 part-timers were employed in this industry, who earned Rs. 82.21 lakhs as wages.

COTTAGE MATCH INDUSTRY

The match industry in India is classified into A, B, C and D classes according to the size and production capacity of the manufacturing units.

The programme of the Commission consists in the promotion of the 'D' class, licensed to produce a maximum of 25 gross boxes per day and capable of employing about 40 persons each.

The development programme aims at the utilisation of the bamboo resources of the country for the manufacture of matches and the elimination of the use of match wood and timber.

The programme also provides for training, research and marketing schemes.

The Commission expended Rs. 6.86 lakhs during 1967-68 of which Rs. 1.55 lakhs were grants and the rest loans.

The production of cottage match boxes rose from 2.33 lakh gross boxes in 1966-67 to 2.44 lakh gross boxes in 1967-68. During the year 14 persons were trained.

The Industry provided employment to 653 full-time workers and 1,993 part-time workers who earned a total wage of Rs. 2.35 lakhs during the year.

VILLAGE POTTERY INDUSTRY

The development programme for the industry consists of schemes for the promotion of production of pottery goods of various types, marketing, research, central and regional training, organisation and promotion of co-operative societies, supply of improved equipment and improved furnaces.

The Commission's programme for the industry during the year comprised among other things technical research, reorganisation of production programme in some areas and introduction of earthen pipes for water channel for minor irrigation. The disbursements for the year 1967-68 were Rs. 42.64 lakhs of which Rs. 9.23 lakhs were grants and Rs. 33.41 lakhs loans.

The production activity for the pottery industry in 1967-68 registered a considerable rise, the value of goods produced being Rs. 178.31 lakhs as against Rs. 165.08 lakhs in 1966-67. Pottery articles worth Rs. 175.92 lakhs were sold during 1967-68. Under the training programme, 106 supervisors and 132 artisans were trained during the year. The industry provided employment to 35,536 persons during the year and the wage bill amounted to Rs. 84.31 lakhs.

FIBRE INDUSTRY

With a view to utilizing various kinds of fibres like sisal, hemp, san-hemp, etc., which grow in abundance in villages, but remain mostly unprocessed, the Commission implements a development programme under which improved Charkhas are distributed, artisans are trained and model production centres are organised.

In 1967-68 Rs. 10.48 lakhs were disbursed. During the year 36 instructors and 7,324 artisans were trained. The production of fibre articles during 1966-67 and 1967-68 were Rs. 95.40 lakhs and Rs. 109.64 lakhs respectively. The industry provided employment to 16,646 persons. The total wages paid during 1967-68 were Rs. 47.15 lakhs.

CARPENTRY AND BLACKSMITHY

For developing the village carpentry and blacksmithy industry, the Commission disbursed Rs. 10.38 lakhs during 1967-68 of which Rs. 2.15 lakhs were grants and the rest loans. Besides, a working capital loan of about Rs. 6.00 lakhs was also disbursed. The value of production and sale during 1967-68 amounted to Rs. 93.60 lakhs and Rs. 88.76 lakhs respectively. The industry provided employment to 2,104 full-time workers and 1,030 part-time workers during the year and the wage bill was Rs. 21.34 lakhs.

MANUFACTURE AND USE OF MANURE AND METHANE GAS FROM COW-DUNG AND OTHER WASTE PRODUCTS

The total number of gas plants set up by the Commission during 1967-68 was 944, thus bringing the total number of gas plants at the end of 1967-68 to 1,701. There were 246 agencies which received funds for the development of the industry at the end of the year.

During 1967-68 the Commission disbursed Rs. 9.58 lakhs for building plants as against Rs. 4.96 lakhs in 1966-67. The production of methane gas increased from 22.26 lakh cubic metres valued at Rs. 5.35 lakhs in 1966-67 to 27.68 lakh cubic metres valued at Rs. 6.95 lakhs in 1967-68. Besides, about 22,178 tonnes of manure valued at Rs. 4.24 lakhs were also produced during 1967-68.

LIME MANUFACTURING INDUSTRY

The construction of low cost kiln and improved kiln designed by the Commission on modern lines continued to receive attention during 1967-68.

As against a disbursement of Rs. 5.28 lakhs in 1966-67, the Commission disbursed Rs. 4.61 lakhs in 1967-68 in the form of grants and loans. The production of lime

during the year amounted to Rs. 16.50 lakhs and the industry provided employment to 4,168 persons. The total wages during the year amounted to Rs. 8.14 lakhs.

INTEGRATED DEVELOPMENT PROGRAMME

The programme aims at intensive development of khadi and village industries in the gramdan and bhoedan areas where some spade-work had already been done.

During 1967-68, the Commission approved 17 blocks, bringing the total number of blocks to 682. Of these 87 were Prakhanda blocks, 314 gramdan blocks and the remaining were outside the areas covered by the bhoedan movement and were located in tribal and hill and border areas. By 1967-68, the programme covered 31,112 villages with a population of 2.19 crores. During the year Rs. 47.33 lakhs were disbursed to 226 institutions including the State Khadi and Village Industries Boards.

The production of yarn during the year was 111.73 lakh kgs. About 14.39 lakh sq. metres of cloth valued at Rs. 44.07 lakhs was woven for self consumption. The total number of self-sufficiency spinners under the programme was 18,826. The sale of khadi in the area under the scheme amounted to Rs. 312.29 lakhs. The total production and sales of village industries products during the year aggregated Rs. 157.92 lakhs and Rs. 148.22 lakhs respectively. Employment was provided to 3.93 lakh persons under khadi and 0.32 lakh persons under village industries, the total wages distributed to them being Rs. 171 lakhs and Rs. 33.23 lakhs respectively.

PROGRAMME FOR HILL AND BORDER AREAS

The Commission had by the end of 1967-68 spread a network of 95 centres in the border areas of almost all the border States. Distribution and/or sale of implements and tools under khadi and village industries during 1967-68 were to the tune of Rs. 1.79 lakhs and Rs. 1.08 lakhs respectively.

WEAVING SUBSIDY SCHEME

The Khadi and Village Industries Commission introduced weaving subsidy scheme from 6th April 1964 under which the rebate on the sale price of khadi has been replaced by a system of providing facilities for free weaving of all handspun yarn.

The new scheme benefits the spinners who get khadi at the cost of cotton while the urban consumers continue to get khadi at the rate existed under the previous scheme; the only difference is that the amount available as rebate on the old sale price would under the new scheme be deducted from the price at an earlier stage in the form of weaving subsidy.

KHADI AND VILLAGE INDUSTRIES IN FOURTH PLAN

The Khadi and Village Industries Commission has three main objectives in the Fourth Five Year Plan, viz., the social objective of providing employment, the economic objective of producing a saleable article, and the wider objective of creating self-reliance amongst the people and building up a strong rural community spirit. The production of khadi of all varieties during the Fourth Five Year Plan is estimated at 760.22 million sq. metres valued at Rs. 233.46 crores. Employment will be provided under khadi at the end of the Plan in 1973-74 to 24.99 lakh persons (20.94 lakh traditional and ambar charkhas, and 4.05 lakh new model charkhas). The production target for village industries during the Plan is put at Rs. 472.16 crores. The total number of people who will be either fully or partly employed under village industries by 1973-74 is estimated at 16.38 lakhs.

Technical Improvements

New equipment, tools and processes have been developed and many others are in the process of experimentation. It is proposed to take advantage of all the available modern scientific knowledge and experience in improving progressively the productivity and income of artisans.

The new model charkha, the sevagram semi-automatic looms, etc. for example, would still enhance productivity, raise the level of income and make cloth more durable. Average production per new model charkha at present

ranges from 15 to 20 hanks for 8 hours work which ensures a wage Rs. 1.50 to Rs. 2.00 a day.

OTHER INDUSTRIES

Industries such as collection of forest plants for medicinal purposes, manufacture of shellac, manufacture of gums and resins, manufacture of katha, fruit processing and preservation, etc. are new additions to the list of industries under the purview of the Commission. Financial assistance was given to them during the year for initiating the work. Some of them, especially katha manufacturing (with a production worth Rs. 4.26 lakhs) made good start.

HANDICRAFTS

Handicrafts occupy the sixth place in the country's exports.

The All-India Handicrafts Board studies the problems confronting the handicrafts industry and advises the government on the solution of these problems. The Board is also required to advise the government on grants and loans to be given to the state governments, private organisations and institutions for financing activities necessary for the development and improvement of handicrafts. It plans and formulates schemes for the development of handicrafts. The State governments are mainly responsible for the implementation of plans and schemes whereas the Board undertakes such developmental measures as are of national importance and of value to the over-all programme for development of handicrafts and common benefit to the States, e.g., organisation of and participation in exhibitions and fairs of national importance, mobile exhibition covering several States, nation-wide publicity campaign, technological research and improvement, quality control, economic research and studies, design development on regional basis and specialised training. It also promotes the development of cooperatives and arranges credit.

The Planning Commission had allocated Rs. 100 lakhs for 1968-69.

Schemes to be undertaken during the next five years include market research, promotion of inter-state marketing, laying down standards and specifications, extension of training facilities in the management of emporia, salesmanship and display, introduction of improved techniques with particular emphasis on reducing cost of production and opening of organised production centres.

Besides co-ordinated schemes for the expansion of exports in handicrafts, the Fourth Five Year Plan envisages orientation in production to meet the needs of customers in different income groups within the country and the promotion and development of rural crafts.

The exports of handicrafts during the years 1964-65, 1965-66, 1966-67 and 1967-68, have been (in Rs. crores) 25.36, 27.79, 40.41 and 54.76 respectively.

In order to strengthen and coordinate the measures taken for promotion of handicrafts, the Board has set up Regional Exporters Associations at Delhi, Bombay, Madras and Calcutta and craft Associations for Zari and Carpets. The targets of exports for the year 1970-71 has been fixed at Rs. 52.26 crores.

A list of the major handicrafts is given below :—

Textiles : Hand-printing and traditional dyeing of textiles, brocades, himroo, carpets and druggets, rugs, gabbas and namdas, embroidery (cotton, silk, wool and zari),

lace and lace work including nakki and gota making, shawls; **Metalware :** Silver and goldware, bidri filigree, brass and copperware, bronze work; **Ceramics :** Pottery and earthenware; **Ivory :** Ivory carving; **Papier-mache :** Papier mache articles; **Woodwork :** Wood-carving and inlay, lacquer work including nirmal work, decorative furniture; **Stone-work :** Stone-carving including marble work and alabaster; **Toys :** Dolls and toys other than mechanical toys; **Leather :** Leather goods (Artistic work); **Horn :** Artistic articles; **Bone :** Artistic articles; **Cane :** Bamboo, etc. Articles made of cane, bamboo, willow, straw and grass including mats and pith crafts; **Incense and perfumery ; Flax and Fibre articles ; Bangles & Beads ; Musical Instruments ; Conch-shell and semiprecious stones.**

Miscellaneous : Miscellaneous traditional art objects such as Orissa, Mysore and Tanjore paintings, and handicraft products specially made for ceremonies, articles of worship and theatrical requisites such as costumes, masks, puppets, etc.

Steps taken to develop handicrafts include the establishment of design centres to revive traditional designs and create new ones and training centres to better techniques. Some of these training centres are also production centres.

Mobile exhibitions are taken round the country and handicrafts weeks are held. A handicrafts museum has been established in New Delhi.

Design Centres

The Board has four regional Design Development Centres at Delhi, Calcutta, Bangalore and Bombay to look after designing and development of the crafts in their region, survey requirements, provide training and maintain close collaboration with the State centres, marketing organisations, exporters etc. State design centres were established and are situated in Kashmir, U.P., Bihar, W. Bengal, Himachal Pradesh, Bhopal, Tamil Nadu, Hyderabad, Orissa, Manipur, Tripura, Rajasthan, Punjab and Kerala.

During the III Five Year Plan over 5,000 original designs were evolved covering 16 crafts and nearly 500 parties were assisted.

Development of Co-operatives

The Board encourages formation of handicraft co-operatives and provides financial, technical and marketing facilities to them.

The number of handicraft co-operatives increased from 1,000 in 1957-58 to nearly 3,000 in 1967-68. In addition 200 handicrafts emporia have also been set up to expand marketing activities.

The Board has also started a training programme for the co-operative organisers for which trainees from Government Departments and co-operative organisations are selected for training. Up to April 1968 ten such courses had been held and 184 persons trained.

Survey of associations of artisans, dealers and exporters has been completed by the Indian Co-operative Union on behalf of the Board.

Credit Facilities

One of the main functions of the Board is to see that

adequate credit facilities are made available to the handicrafts industries and trade at different stages of its production, storage, distribution and sales.

Awards : To bestow honour and encourage craftsmen, the Board has instituted National awards for Master-craftsmen. These awards are given every year during the "Republic Week" celebrations.

Handicrafts and Handlooms Export Corporation of India Ltd.

(See page 99.)

GLASS INDUSTRY

INDIA manufactures almost all varieties of optical glass. Barring the sphere of decorative table-ware like hand-cut crystal, fine goblets, chandeliers and plate glass, her progress in the industry has been phenomenal. The value of total production has increased in 15 years from Rs. 5 crores to Rs. 40 crores.

The more commonly used raw materials for glass

industry are : sand, borax, soda ash and salt cake, dolomite, lime or limestone, saltpetre and sulphur, manganese dioxide and colouring materials.

The industry comprises the manufacture of sheet glass, blown and pressedware and bangles.

The production of different types of glass and glassware from 1961 onwards is given below :

	Units	1961	1962	1963	1964	1965	1966	1967
Sheet glass	Thousand sq. metres	6,780	8,724	9,840	9,623	8,136	12,336	14,335
Laboratory Glass	Metric tonnes	3,576	3,948	4,440	4,464	5,004	9,072	8,150
Glass shells	Lakh pieces	623	682	744	535	768	894	921
Other Glassware	Thousand tonnes	177	186	190	198	196	211	213
Thermos Flasks	Thousand pieces	1,541	1,542	1,939	1,936	2,034	2,438	3,112

The pilot plant project to experiment with the production of optical glass and foam glass undertaken in the

Central Glass and Ceramic Research Institute, Calcutta, with Soviet assistance has shown good results.

Imports and exports are as follows :

(Rupees in lakhs)

	1962	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68
Imports	136.94	148.58	158.35	122.96	125.16	108.18	163.00
Exports	24.05	24.11	33.33	63.74	35.04	40.41	62.00

Exports are mainly of bangles, the chief markets being Ceylon and countries in Africa, Middle and Far East.

A new Company—Glass Lined Equipment Co. Ltd. has been established at Umreth near Anand for manufacturing glass enamelled equipment such as reactors,

evaporators, storage vessels, valves, pipes and fittings required in the chemical, pharmaceutical and petrochemical industries.

The per capita consumption of glass is very low. The annual consumption is only one lb. which is about one-hundredth of the consumption in U.S.A.

HIDES, SKINS AND LEATHER

LEATHER tanning occupies an important position in the industrial set-up of the country, with an estimated annual output of Rs. 80 crores and providing employment to over four lakh people. Chrome tanning and vegetable tanning form the major areas in the industry.

The tanneries in Madras specialise in the manufacture of light leathers like wet blue goat skins, handgrain morocco, clothing leather, etc. Calcutta units concentrate on chrome tanned hides, chrome uppers and wet blue hides and skins.

Leather is widely used for belting industrial gloves and aprons, diaphragms, oil seals, oil filters, washers etc.

Requirements of raw hides, the principal raw material in the manufacture of pickers and picking hands are met mostly from imports.

During 1968-69, the availability of cow hides was estimated at 19.25 million tonnes and that of buffalo at 6.3 million tonnes. This is expected to increase to 20.51 million tonnes and 6.85 million tonnes respectively by 1973-74. During this period, the estimated production of raw goat skin and sheep skin is expected to increase from 44.60 million tonnes and 16.52 million tonnes respectively to 49.20 million tonnes and 16.81 million tonnes respectively.

The tanning industry comprises four sections, *viz.*, 1. organised tanneries producing finished vegetable tanned buffalo leather and chrome tanned upper leather; 2. tanneries producing vegetable tanned leather known to the trade as E. I. kips and E. I. tanned skins; 3. small-scale chrome tanneries producing chrome tanned upper leather; and 4. village tanneries producing vegetable tanned cow

and buffalo leather and vegetable tanned leather from goat and sheep skins.

Today, there are 33 large-scale units having an installed capacity of 4.8 million numbers of cow hides for vegetable tanning and 12 units with installed capacity of 1.58 million numbers of cow hides for chrome tanning.

The annual installed capacity and production of each of these items is as follows:

Year	Chrome Tanned Hides		Vegetable Tanned Buffalo and Cow Hides		Leather Cloth	
	Capacity (Thousands)	Production	Capacity (Thousands)	Production	Capacity (Thousand metres)	Production
1964	1,580.4	915.8	4,678.8	3,344.4	8,262.0	8,990.4
1965	1,580.4	868.6	4,678.8	3,433.8	9,551.0	9,133.2
1966	1,580.4	909.6	4,816.3	3,310.1	12,255.6	11,898.2
1967	1,580.4	893.9	4,828.8	3,203.1*	12,555.6	10,789.5*

* Provisional.

According to the Annual Survey of Industries 1963, the total productive capital on tanneries and leather finishing plants was about Rs. 4.3 crores and total employment came to 8,290. The gross ex-factory value of output was Rs. 16.9 crores.

The trend of the value of imports and exports since 1964-65 is given below

Import of Raw Hides and Skins etc. :

(Rs. Lakhs)

Year	Buffalo Hides Raw	Cow Hides Raw	Other Cattle Hides	Calf & Kip Skins Raw	Goat & Kid Skins Raw	Sheep & Lamb Skins	Wattle Bark	Wattle Extract	Total
1964-65	105.1	90.9	50.4	3.1	17.9	41.9	30.0	216.4	555.7
1965-66	64.0	26.6	44.7	5.9	44.6	31.1	19.1	124.0	360.0
1966-67	76.2	8.8	37.8	6.7	7.1	14.9	30.6	243.2	425.3
1967-68	59.9	18.0	23.6	4.4	6.1	2.7	17.5	163.3	295.5
Total*	608.1	513.8	281.8	77.3	193.2	212.0	218.8	1,180.8	3,285.8

* Accounted from 1962-63 to 1967-68.

Export of Tanned Hides and Skins :

Year	Tanned Cow Hides	Tanned Buff Hides	Tanned Cow Calfskins	Tanned Buff Calfskins	Tanned Kips	Tanned Goat Skins	Tanned Sheep Skins	Total
1963-64	372.4	8.1	82.5	181.1	12.1	963.7	788.0	2407.9
1964-65	329.8	6.1	68.4	167.6	12.0	1100.6	740.3	2424.8
1965-66	316.6	16.3	77.4	144.7	6.7	1219.7	753.1	2534.5
Total†	2419.0	88.3	480.1	907.0	112.5	5841.9	4247.1	14095.9

† Accounted from 1962-63 to 1965-66.

The export of tanned hides and skins, goat hair and tanning materials aggregated Rs. 42.52 crores during 1966-67, representing an increase of Rs. 16.04 crores over the preceding year.

India imports about 15,000 tons of Wattle extract and bark per year. By the end of the Second Plan the total area under wattle cultivation had reached about 27,000 acres. During the Third Plan period more area had been extended under wattle plantations in the States of Tamil Nadu, Kerala and Assam.

The mechanised sector claims about 25 per cent of our exports. Major part of it goes to Western Countries. 75 per cent of the exports came from the decentralised sector and the largest chunk of it goes to currency trade area.

A beginning has been made by the Co-operative Mutual Insurance Company, Bombay, to insure milch animals and drought cattle in the States of Maharashtra and Gujarat. A Development Council for Leather, Leather Goods and Pickers industries was constituted in January 1960.

FOOTWEAR INDUSTRY

According to the Annual Survey of Industries 1963, there were 10 units manufacturing footwear and the Statewise distribution of these units is indicated below: Uttar Pradesh 5; Tamil Nadu 2; Bihar 1; Gujarat 1; Madhya Pradesh 1; Total 10.

The capacity for the Indian type of footwear which is hand-made fluctuates with demand and data are not available for Statewise figures.

The output of western types of footwear made of leather since 1964 is shown as follows:—

Monthly Averages

Year	Capacity (Thousand Pairs)	Production
1964	—	649.3
1965	—	753.3
1966	—	843.3
1967	—	880.5

Reliable production statistics for small and cottage units which are responsible for manufacturing over 90 per cent of the total output are not available.

Import of leather footwear is insignificant.

Export of Leather Footwear : Quantity in million pairs and value in Rs. lakhs respectively during the following year : 1964-65 : 4.02 ; 348 ; 1965-66 : 4.69 ; 431 ; 1966-67 : 5.29 ; 670 ; 1967-68 : — ; 752.

The Government of India has re-imposed the 10 per cent excise duty on footwear parts costing more than Rs. 8. The 10 per cent duty is, as before, liable only on the produce of the so called organised sector of the industry.

JUTE INDUSTRY

THE jute industry maintains its position as India's largest foreign exchange earner.

There are 79 mill companies in India with a total loomage of 75,265. Of the 79 mill companies, 68 are in West Bengal, 4 in Andhra, 3 in Bihar, 3 in U.P., and 1 in M.P. The mills in West Bengal are concentrated in and around Calcutta on both banks of the Hooghly.

The industry has spent Rs. 50 crores on the modernisation of its productive apparatus. As compared with 1948-49, the output in 1967-68 was about eight per cent higher in tonnage, the share of carpet backing being about 13.5 per cent.

The industry employs more than two lakh workers.

The jute industry is a supplier of wide hessian backing cloth for tufted carpets to the U.S.A. Intensive research on fibre technology and product development, both locally and overseas, goes to employ the world's best talents in textile science and engineering.

RAW JUTE PRODUCTION : An achievement of an average of 76 lakh bales per year was made during the Third Plan.

Additional production is sought to be achieved partly through double cropping 8,30,000 acres of land with jute and paddy in canal and tube-well irrigated areas but mainly through an increase in the unit yield by intensive cultivation methods. In recent years the average consumption of jute by mills has been 80 lakh bales. The target fixed for 1968-69 was 90 lakh bales by the Indian Jute Development council.

The all-India final estimate of jute puts the area and production at 885,300 hectares and 63,69,200 bales of 180 kg. each respectively for 1967-68. This shows an increase of 88,500 hectares or 11.1 per cent in area and 10,11,300 bales or 18.9 per cent in production over the partially revised estimates of 796,800 hectares and 53,57,900 bales for 1966-67.

The table below gives the production and exports of jute goods during the past few years :

PRODUCTION AND EXPORTS OF JUTE GOODS

Year (July-June)	Hessian	Production ('000 tons) Sacking	Others	Total	Exports (all-India) April-March ('000 tons)	April-March Value (Rs. in crores)
1964-65	518	566	216	1,300	935	168.35
1965-66	481	539	187	1,207	882	182.85
1966-67	436	499	199	1,134	724	249.62
1967-68	443	450	229	1,122	740	234.09

Production of raw jute in the Indian Union :

Year Average	Lakh acres	'000 bales (1 bale = 400 lbs)
1964-65.. .. .	20.72	5,973
1965-66.. .. .	18.69	4,436
1966-67.. .. .	19.72	5,306
1967-68.. .. .	21.87	6,319

N. B.—The jute season is from July to June.

The all-India yield per acre in bales was : 1964-65 : 2.56 ; 1965-66 : 2.37 ; 1966-67 : 2.69 ; 1967-68 : 2.89. Production of jute and mesta in lakh bales : 1964-65 : 75.44 ; 1965-66 : 56.70 ; 1966-67 : 64.27 ; 1967-68 : 75.30.

Supply and distribution of jute and mesta during the seasons 1966-67 and 1967-68 are as follows :

				(Lakh bales)	
				1966-67	1967-68
<i>Supply</i>					
Opening stocks	with	mills			
(godown)	..	..	..	8.30	—
J.B.S.A.	..	..	..	0.30	12.50
Other Stockists	..	..	..	3.00	6.00
Total	..	..	..	11.60	18.50
Crop : Total	..	..	..	66.00	76.00
Import :	..	..	..	16.40	—
Total Supply	..	..	..	94.00	94.50

(Lakh bales)

	1966-67	1967-68
<i>Distribution</i>		
Mill consumption	71.44	72.50
Exports	2.00	1.00
Domestic consumption ..	2.00	2.00
Total distribution	75.44	75.50

The following table gives the trend of I.J.M.A. mill consumption of raw jute:—

Year ended June	Lakh bales
1964-65	75.85
1965-66	70.36
1966-67	65.94
1967-68	65.20

INDEX NUMBER OF WHOLESALE PRICES OF RAW JUTE & JUTE MANUFACTURES (Base : 1952-53 = 100)

	Jute (Raw)	Jute Manu- factures
	1967	1968
January	261	142
February	259	150
March	256	148
April	245	142
May	227	139
June	207	132
July	204	127
August	197	125
September	200	129
October	204	131
November	198	128
December	203	125

Source : Index Numbers of Wholesale Prices issued by the office of the Economic Adviser (Published in "Jute Situation" October 1968 issued by the Economic & Statistical Adviser to the Govt. of India, Ministry of Food, Agri, C.D. & Cooperation, New Delhi).

LAC INDUSTRY

LAC is a resin which finds extensive application in industries. It is a resinous protective secretion of an insect which lives by sucking the sap of certain trees and shrubs called lac hosts.

There are four crops of sticklac, named after the Hindu months in which the collection of each crop commences. These are 'Baisakhi' and 'Katki' from one strain of the insect (Rangeeni) and 'Jethwi' and 'Aghani' from another strain (Kusumi). The first processed product, after the crushing and washing of sticklac is known as 'seedlac'. From this shellac is manufactured either by melting it (seedlac) manually in cloth bags held near a fire place called 'bhattas' or by the mechanised process of extraction with suitable solvents.

Lac is used in the manufacture of french polish, gramophone records, electrical insulating materials, shellac-moulded articles, micanite, hats, grinding wheels, adhesives, cements, wood turning, metal enamelling, printing ink, etc.

PRODUCTION

Lac is grown mainly in Bihar, West Bengal, Madhya Pradesh, Maharashtra and Uttar Pradesh. Till recently India produced approximately 85 per cent of the world production. But in recent years Thailand has also increased its production and now, on an average, India's share is between 50 and 60 per cent of world production. The State-wise break-up of average production in India during the years 1963-68 is as follows:

State	Average Crop (in quintals)
Bihar	1,49,251
Madhya Pradesh	61,464
West Bengal	30,296
Maharashtra	6,904
Uttar Pradesh	19,333
Oriassa	6,270
Gujarat	853
Other States	2,239
Total	2,76,615

The total production in 1967-68 was 3,87,791 quintals and in 1966-67 it was 2,96,724 quintals. The preliminary report issued by the Regional Office, Lac Development, Ranchi, puts the total yield of Aghani (Kusmi) lac crop in 1968 at 39,937 quintals, and of Katki lac at 53,000 quintals.

EXPORTS

Between 85 and 90 per cent of the lac produced in India is exported. The U.S.A., till recently, bought the largest quantity of Indian lac. But of late, the U.S.S.R. has emerged as the largest buyer.

The table below gives exports of lac to important countries during 1966-67 and 1967-68.

(The figures are in quintals)

	1966-67	1967-68
SHELLAC AND BUTTONLAC		
U.K.	19,856	17,046
U.S.A.	21,246	15,273
U.S.S.R.	10,503	13,832
W. Germany	4,249	2,661
Brazil	7,447	12,044
Australia	3,466	4,322
France	4,091	3,883
Other countries	51,119	42,672
Total quantity	1,21,977	1,11,733
Total value in rupees	4,50,12,275	4,07,24,728
SEEDLAC		
U.S.A.	6,026	12,369
West Germany	17,891	17,261
U.K.	3,793	5,262
Other countries	3,190	3,715
Total quantity	30,900	38,607
Total value in rupees	89,26,895	1,04,21,880

	1966-67	1967-68
OTHER KINDS OF LAC		
Total quantity	5,667	3,570
Total value in rupees	6,54,310	3,58,552
Total of all kinds of lac:		
Quantity	1,58,544	1,53,909
Value in rupees	5,45,93,480	5,15,05,160

ORGANISATIONS CONNECTED WITH LAC DEVELOPMENT AND INDUSTRIES

For looking after the development and marketing of lac and also for guiding and coordinating lac development work in the States, a Regional Office, Lac Development, has been created under the Department of Agriculture of Government of India with headquarters at Ranchi with effect from 1st April 1966. The Government of India have also constituted the Indian Lac Development Council on which various interests connected with lac are represented. The primary function of the Council is to advise the Government on all matters relating to development of lac cultivation, trade and industry.

There is also a Shellac Export Promotion Council with headquarters at Calcutta whose function is to promote the export of lac to foreign countries. On account of its dependence on foreign countries, the internal prices of lac very often fell to very low levels which reduced the foreign exchange earnings and acted as a disincentive to the producer. In order to guard against this, a body of exporters of lac called the Indian Lac Exporters Association has been formed with Government support. The major functions of the Association are to assist the Government in the fixation of minimum prices of all grades of lac at the export stage, maintenance of quality at export stage and administration of the Minimum Export price.

The Bihar Cooperative Lac Marketing Federation has been formed in Bihar with the object of giving a price support to the cultivator at the time when the market price falls below certain levels. Similar organisations in other States are in the offing.

To improve upon the technique of Lac Cultivation and to find out new uses of lac are the responsibilities of the Indian Lac Research Institute at Namkum. This Institute is under the control of the Indian Council of Agricultural Research.

MINES AND MINERALS

THE total value* of mineral production in India during 1967 was Rs. 2,733 million as against Rs. 2,494 million in the previous year showing an increase of about 10 per cent. In the first seven months of 1968 the total value of mineral production was Rs. 1,886 million.

Coal and lignite constituting the leading group accounted for Rs. 2,056 million or 75 per cent of total value of mineral production during 1967. The share of metallic minerals in the total value was Rs. 375 million and that of non-metallic minerals Rs. 302 million accounting for 14 and 11 per cent respectively in the total value of mineral production during 1967.

In terms of value of output during 1967 next to coal and lignite were iron ore (Rs. 179 million), limestone (Rs. 148 million), manganese ore (Rs. 98 million), salt (Rs. 70 million), gold (Rs. 47 million), copper ore (Rs. 24 million) and mica (Rs. 17 million).

STATE-WISE ANALYSIS

Bihar accounted for Rs. 996 million or about 37 per cent of the all-India value of mineral production, West Bengal 22 per cent and Madhya Pradesh 16 per cent. These are the principal producers of coal in India respectively accounting for 44%, 29% and 10% of the all-India output during 1967.

Andhra Pradesh and Orissa accounted for 6.2 and 5.4 per cent respectively of the total value of mineral production. During the year, Maharashtra, Kerala and Jammu and Kashmir gained one position each over that of Mysore, Haryana and Union Territory of Delhi. There was no change in regard to the positions of the remaining states during 1967 compared to their respective positions in the previous year. The value of mineral production which increased in several states during 1967 was however, lower in Assam, Orissa, Rajasthan, Union Territory of Delhi and Uttar Pradesh relative to the previous year.

Output of iron ore in Goa during 1967 was 6.75 million tonnes as compared to 6.72 million tonnes in the preceding

year. Production of manganese ore and ferromanganese ore during the year declined to 18,485 and 24,297 tonnes respectively from 22,102 and 66,689 tonnes in 1966 mainly due to accumulation of stocks and high cost of exploration. The output of salt during 1967 was 18,300 tonnes as compared to 13,300 tonnes in 1966.

OVERSEAS TRADE

Exports of most of the principal minerals showed a fall quantitatively during 1967 compared to the preceding year, even though the foreign exchange earned through the exports of ores and minerals by India (including Goa) was higher at Rs. 1,387 million as compared to Rs. 1,127 million during 1966.

The principal minerals exported from India during 1967 in order of value were iron ore (Rs. 726.8 million) diamond of gem variety (Rs. 160.2 million), mica (Rs. 149.0 million) precious and semiprecious stones (Rs. 143.6 million), manganese ore (Rs. 126.9 million), kyanite (Rs. 15.8 million), chromite (Rs. 15.6 million), coal (Rs. 15.1 million), salt (Rs. 8.2 million) and magnesite (Rs. 6.9 million).

India earned foreign exchange worth Rs. 644 million during 1967 by the exports of metals and alloys which was higher by Rs. 360 million as compared to 1966. Of the total value of metal exports in 1967 about 95 per cent was accounted for by ferrous metals and the remaining 5 per cent by non-ferrous metals. The exports of iron and steel materials during 1967 increased to 1,058,000 tonnes valued at Rs. 439 million as compared to 785,000 tonnes valued at Rs. 234 million in 1966. The exports of pig iron (including cast iron) amounted to Rs. 150 million as against Rs. 16 million in 1966. The exports of ferromanganese increased from 15,390 tonnes in 1966 to 24,525 tonnes in 1967.

The value of imports of ores and minerals into India during 1967 totalled Rs. 651 million as compared to Rs. 335 in 1966. The principal minerals imported into India during the year were sulphur (Rs. 324 million),

* Excluding (a) petroleum, (b) minor minerals and (c) minerals declared as prescribed substances under the Atomic Energy Act, 1948 and also the value of mineral production from Goa.

rock phosphate (Rs. 95.8 million), precious and semi-precious stones (Rs. 61.4 million), asbestos (Rs. 53.7 million), emerald (Rs. 24.4 million), diamond of gem variety (Rs. 24.3 million), zinc concentrates (Rs. 12.7 million) and industrial diamond (Rs. 12.3 million). Quantitatively the imports of rock phosphates declined from 850,000 tonnes in 1966 to 598,000 tonnes in 1967, while that of sulphur increased from 286,000 tonnes to 593,000 tonnes. The imports of asbestos remained almost constant at 29,785 tonnes.

The total foreign exchange spent on the imports of metals and alloys into India increased from Rs. 1,404 million in 1966 to Rs. 2,243 million in 1967. The value of imports of ferrous metals during 1967 increased to Rs. 1,158 million from Rs. 800 million during the preceding year. Imports of non-ferrous metals also increased steeply from Rs. 604 million during 1966 to 1,085 million during 1967. Quantitatively the imports of aluminium increased by 25,723 tonnes, copper by 18,966 tonnes, lead by 3,054 tonnes, zinc by 36,431 tonnes and nickel by 1,420 tonnes during 1967 as compared to 1966. The imports of iron and steel materials also rose to 561,000 tonnes from 497,000 tonnes in 1966. There were no imports of pig iron (including cast iron) during 1967 as against 30,671 tonnes in 1966.

BAUXITE

India can be considered to be self-sufficient in respect of bauxite, which is the chief raw material for aluminium metal. A sizeable quantity also finds outlet in export market after meeting the indigenous requirements. According to the latest estimates the all-India reserves of bauxite of all grades are 128.3 million tonnes of which 64.7 million tonnes are of high grade.

Yearly production and export of bauxite from 1963-67 in thousand tonnes: 1963: 567, 135; 1964: 593; 94; 1965: 707; 63; 1966: 750; 78; 1967: 789; 61.

During 1967, five aluminium smelters, all in the private sector with a total installed capacity of 116,170 tonnes per annum located one each at Hirakud (Orissa), Alwaye (Kerala), Jayakanagar (West Bengal), Renukoot (U.P.) and Mettur (Tamil Nadu) produced a total of 96,223 tonnes of aluminium metal. Except Alwaye, all the other units have expansion programmes. Indian Aluminium Co.'s new smelter at Belgaum of 30,000 tonnes installed capacity is coming up shortly. Besides, two units under the public sector one each at Koyna, Maharashtra (50,000 tonnes capacity) and Korba, Madhya Pradesh (1,00,000 tonnes capacity) are proposed to be set up.

COAL & LIGNITE

The most important coal fields are Raniganj in West Bengal and Jharia and Bokaro in Bihar. The best cooking coal comes from Giridih, Jharia and Raniganj. Other States in which coal is found are Madhya Pradesh, Orissa, Andhra Pradesh, Tamil Nadu, Maharashtra, Assam, Rajasthan and Kashmir.

The proved and inferred reserves of all types of coal are estimated at 6,796 and 130,782 million tonnes respectively by the Geological Survey of India.

The output of coal in million tonnes for the years 1963 to 1967: 1963: (85.96); 1964 (62.44); 1965 (67.16); 1966 (67.97); 1967 (68.22).

Value of production of coal during 1967 was Rs. 198 crores.

India exported 11,067 tonnes of coke valued at Rs. 1.54 million in 1966 relative to 4,920 tonnes valued at Rs. 0.49 million in 1965. Coke exports to Burma which is the chief buyer, rose from 4,519 tonnes in 1965 to 10,512 tonnes in 1966.

† Bailadila iron ore mine at Kirandul (Bastar District) in M.P., the Asia's largest mechanised iron ore mine with an annual production capacity of four million tonnes, has been formally inaugurated in January 1969.

The multipurpose 'South Arcot Lignite Project' at Neyveli is planned to increase the mine output to 6 million tonnes per annum. During 1967, 2.93 million tonnes of lignite was mined in Neyveli.

Lignite also occurs at Palana and Khari in Bikaner District, Rajasthan, Nichahom in Jammu & Kashmir, Kutch and Broach Districts in Gujarat. The production of lignite during 1967 was 2,929,407 tonnes as against 2,568,184 tonnes in 1966.

During the year 1966 altogether 9 washeries with a rated capacity of 3,062 tonnes per hour have washed a total of 7.17 million tonnes of coal.

IRON ORE

The production of iron-ore during 1967 totalled 18.95 million tonnes (excl. Goa) as against 20.07 million tonnes in the previous year.

India is one among the few countries endowed with large reserves of good quality iron ores which can meet the growing demands of the indigenous iron and steel industry and also sustain considerable export trade.

The production from Goa during 1967 was 6.75 million tonnes as against 6.72 million tonnes during 1966.

Among the producing States (excluding Goa) Orissa accounted for 29 per cent of the all India output in 1967 followed closely by Bihar with 28 per cent. Madhya Pradesh † with 25 per cent, Mysore with 16 per cent of the all India output in 1967.

The quantity of iron exported in 1967 was 13.57 million tonnes valued at Rs. 726.78 million as compared with 13.66 million tonnes valued at Rs. 586.40 million in 1966.

Japan continued to be the principal buyer of Indian iron ore. Exports to this country rose by 25 per cent to 10.92 million tonnes in 1966 as compared to 7.87 million tonnes in 1965.

Production of iron-ore in thousand tonnes and value in thousand rupees respectively in brackets during 1964 to 1967 are: 1964 (15,336; 122,530); 1965 (17,154; 148,820); 1966 (20,065; 175,965); 1967 (18,948; 178,755). The production of iron ore in Goa during 1964-67 in thousand tonnes are 1964: 6,052; 1965: 6,584; 1966: 6,718; 1967: 6,751.

Export trade of iron-ore in thousand tonnes during 1964-67 and value in thousand rupees respectively are: 1964: 10,482; 3,71,574; 1965: 11,264; 3,95,078; 1966: 13,658; 586,379; 1967: 13,574; 7,26,778.

MANGANESE ORE

Extensive deposits of manganese ore occur in Madhya Pradesh, Orissa, Andhra Pradesh, Maharashtra, Mysore, Bihar, and Rajasthan.

The total reserves of manganese ore in the country according to the latest estimate made by the Geological Survey of India, are now placed at over 182.8 million tonnes, of which 48 million tonnes are of high grade. It is estimated that the deposits in the main belt of Nagpur and Bhandara in Maharashtra and Balaghat and Chhindwara in Madhya Pradesh alone contain reserves of the order of 142 million tonnes. A major part of the output is exported at present.

Yearly output and exports respectively of manganese ore in thousand tonnes from 1964-1967 are: 1964: 1,306; 1,598; 1965: 1,536; 1,147; 1966: 1,618; 1,249; 1967: 1,537; 1,108. The production of manganese ore in 1967 in Goa was 42,782 tonnes of which 24,297 tonnes were of ferruginous grade.

The export of manganese ore is now canalised through the Minerals and Metals Trading Corporation of India Ltd. The Manganese Ore India Ltd. is also allowed to export the ores produced by it or acquired by it in the course of its normal business operation.

There is only one ferro-manganese plant under public sector at Bhadravati in Mysore and six in the private sector, two each in Maharashtra and Orissa and one each in Andhra Pradesh and Mysore.

During 1967 the total production of ferro-manganese was 135,829 tonnes as against 137,482 tonnes in the previous year.

LIMESTONE

Limestone is one of the most important industrial minerals required in the manufacture of cement, iron and steel, ferro-alloys, chemicals (for soda ash, caustic soda, bleaching powder, calcium carbide, etc.), fertilizer (calcium ammonium nitrate) and lime.

The cement grade limestone deposits are estimated at about 18,582 million tonnes.

The production of limestone during 1966 and 1967 was 19.81 and 19.50 million tonnes respectively.

MICA

Mica is treated as a strategic mineral and India accounts for a big slice of the world trade in it.

The principal mica deposits are concentrated in Bihar, Rajasthan and Andhra Pradesh.

During 1967 Andhra Pradesh, Bihar and Rajasthan accounted for 24 per cent, 54 per cent and 22 per cent respectively of the all India output.

There are three mica insulation bricks manufacturing units, one each in Rajasthan, Bihar and Andhra Pradesh utilizing scrap of mica waste. There is also one major unit manufacturing different types of micanite in Bihar.

The production¹ and export² figures of Mica from 1964 to 1967 respectively in tonnes are: 1964: 22,810; 29,891; 1965: 23,840; 37,531; 1966: 22,752; 30,467; 1967: 17,017; 21,172.

CHROMITE

Chromite is an important strategic mineral of which India has moderate supplies.

The chief deposits are in the Singhbhum district of Bihar, Mysore and Hassan districts of Mysore State, Ratnagiri and Bhandara districts of Maharashtra, the Krishna district of Andhra Pradesh, the Salem district of Tamil Nadu, and Cuttack and Keonjhar districts of Orissa.

Production and exports respectively in '000 tonnes of chromite from 1964 to 1967 are: 1964: 35; 31; 1965: 60; 33; 1966: 78; 44; 1967: 110; 77.

MAGNESITE

Large deposits of magnesite used in the manufacture of magnesium salts, metallic magnesium and refractory bricks are known to occur in Salem (Tamil Nadu), Hassan, Coorg and Mysore (Mysore), Almora (U.P.), small deposits are known in Dungarpur (Rajasthan) and Singhbhum (Bihar). The chief producing centres are Salem, and Mysore district.

Major part of the output is used in the manufacture of refractory bricks for steel works and a considerable quantity is exported.

Production and export³ (in tonnes) of magnesite from 1964 to 1967 respectively are: 1964: 207,936; 36,151;

1965: 238,905; 53,099; 1966: 232,053; 34,228; 1967: 245,866; 19,912.

GYPSUM

Gypsum deposits are mainly found in Rajasthan (Jodhpur, Bikaner, Nagaur and Jaisalmer), Tamil Nadu (Tiruchirapalli and Coimbatore districts) and Jammu & Kashmir (Doda and Baramulla).

The total inferred reserves are placed at 1,130 million tonnes. Rajasthan accounts for more than 90 per cent of the Indian reserves.

Smaller deposits also occur in Gujarat (Halar, Bhavnagar, Porbander and Kutch), Andhra Pradesh (Nellore), Tehri-Garhwal (U.P.) and in Himachal Pradesh (Sirmur).

Production of gypsum in thousand tonnes from 1964 to 1967 are: 1964: 882; 1965: 1,160; 1966: 1,294; 1967: 1,028.

LEAD-ZINC ORE

Zawar is the only area producing lead and zinc ores. During 1967, 3,995 tonnes of lead concentrates and 10,029 tonnes of zinc concentrates were produced from Zawar mines in Udaipur district Rajasthan.

The production of refined lead during 1967 was 2,474 tonnes as against 2,479 tonnes in 1966 from the Tundoo smelter, Bihar.

It is proposed to increase its present installed capacity of 6,000 tonnes of pig lead per annum to 8,128 tonnes.

The exports of zinc concentrates have been stopped to meet the requirements of zinc smelter at Debari in Rajasthan. This smelter has gone into production in March 1968, having an annual capacity of 18,000 tonnes of zinc and 29,464 tonnes of sulphuric acid to be recovered per annum and converted in turn into 75,000 tonnes per annum of superphosphate. Besides, 76 tonnes of cadmium metal per annum will also be recovered.

Another firm viz. Cominco Binani Ltd. went into production of their zinc plant based on imported concentrates, at Alwaye, Kerala, in July, 1967. It has a capacity of 20,000 tonnes of zinc per year and will recover 48,000 tonnes of sulphuric acid and 40 tonnes of cadmium metal per annum.

During 1967, the production of Zinc metal, for the first time in the country was 3,039 tonnes.

SULPHUR

The mineral pyrites is one source of sulphur. It is found in Amjor (Bihar), Ingaldhal, Kaiga (Mysore), Taradevi (Simla), Lashtial (Kashmir) and Polur (Tamil Nadu) of which Amjor and Ingaldhal deposits are of economic importance.

The Indian Bureau of Mines have estimated 391 million metric tons of pyrites in area covering 48 sq. miles at Amjor assaying 40 per cent sulphur.

Pyrites to the tune of 2.03 million tons assaying 20 to 30 per cent sulphur have been estimated to be available at Ingaldhal, Mysore State. Recently Geological Survey of India has estimated 6 million tonnes of pyrite—pyrrhotite reserve in Saladipura area of Sikar district in Rajasthan.

Substantial quantities of pyrites are associated with the gold deposits of Wynad in the Nilgiris District of Tamil Nadu.

Copper pyrites deposits are also a source of sulphur. Some of the Indian coal e.g. Assam coal and Rewa coal are high in sulphur.

¹ Crude Mica.

² All varieties.

³ Export consists of mostly calcined magnesite.

The Pyrites and Chemical Development Company Ltd. has been set up under the aegis of NIDC to exploit pyrites for production of sulphuric acid and other related products. The P.C.D.C. has initiated action on setting up a sulphuric acid plant at Sindri with a capacity of 400 tonnes per day based on Amjor pyrites.

The country's main requirements are met from imports.

Yearly import of sulphur from 1964-67 in tonnes are as follows : 1964 : 241,161 ; 1965 : 283,248 ; 1966 : 285,877 ; 1967 : 592,641.

COPPER

In India at present Indian Copper Corporation Ltd. is the sole producer of copper ore and metal at Ghatsila, Bihar.

The production of refined copper was 8,904 tonnes in 1967 and 9,438 tonnes in 1966. This meets hardly 10 per cent of the copper requirements of the country.

Extensive investigations are being carried out throughout the country to locate promising copper bearing areas. The more important of these are Khetri, Madhan-Kudhan, Kolihan, Akwali, Dariba and few other sections of the Khetri Copper belt in Rajasthan ; Rakha, Roam-Sideswar, Ramchandrapahar and few other areas in Bihar ; and in Agnigundala and Bellapalli in Guntur Dist. and Mailaram in Khammam district in Andhra Pradesh. The Geological Survey of India located good deposits of copper in the Hassan District of Mysore.

The Hindustan Copper Ltd., a Govt. of India Undertaking has been set up for installing a flash smelter in Khetri, Rajasthan to a production level of 21,000 tonnes of electrolytic copper per annum and sulphuric acid as a by-product and opening of a mine with foreign collaboration. Shaft sinking and other incidental works connected to mining were in progress.

Copper import in tonnes and value in '000 rupees respectively from 1964-67 are : 1964 : 67,471 ; 241,342 ; 1965 : 60,127 ; 334,313 ; 1966 : 25,816 ; 262,358 ; 1967 : 44,782 ; 414,698.

ASBESTOS

Naturally occurring fibrous minerals are called 'asbestos'. The commercial varieties fall into two groups, viz. the serpentine group found exclusively in the serpentine rocks and is commonly called chrysolite variety and the other amphibole group comprised tremolite, actinolite, anthophyllite, crocidolite and amosite varieties. The chrysolite variety is the most important one from the industrial point of view and is mainly limited to Pulivendla taluk of Cuddapah district, Andhra Pradesh, and the annual production is only 400 tonnes.

The bulk of the asbestos requirements of the country is met by imports on account of inadequate domestic production. The trend in the production and imports of asbestos for the last four years is shown in the table below :

(In tonnes)

Year	Output (amphibole & chrysolite)	Imports
1964	3,375	35,710
1965	4,775	37,816
1966	6,979	29,546
1967	7,148	29,191

KYANITE AND SILLIMANITE

Kyanite and sillimanite are the important refractory minerals having the same chemical composition (Al_2O_3 , SiO_2). India has richest deposits of kyanite and sillimanite

in the world, kyanite located at Lapsa Buru, Kharswan, in Singhbhum district, Bihar and sillimanite deposits of Khasi Hills at Sonapahar, Assam. The Indian sillimanite can be used as a refractory without calcination since it shows very little expansion. India occupies an important position both as a producer and an exporter of kyanite and sillimanite.

The trends of their output and exports for the last four years are shown in the following table :

(In tonnes)

Year	Kyanite		Sillimanite	
	Output	Export	Output	Export
1964 ..	34,173	28,818	12,362	8,772
1965 ..	37,481	31,144	11,276	5,786
1966 ..	63,820	35,726	10,286	6,332
1967 ..	50,374	40,653	5,797	2,046

SALT

India produced 4.49 million tonnes of salt during 1967 of which Gujarat produced 55.4 per cent, Tamil Nadu 16.1 per cent, Maharashtra 11.9 per cent, Rajasthan 8.2 per cent, Andhra Pradesh 5.7 per cent and Orissa, Mysore, West Bengal, Himachal Pradesh, Goa and Kerala together three per cent. The production in 1966 was 4.52 million tonnes.

Besides being self-sufficient India exports a sizable quantity of salt. India exported 4.49 lakh tonnes in 1967 as against 3.87 lakh tonnes in 1966. The country has reached a production capacity of nine million tonnes.

The average number of labourers employed per day in the salt industry in 1967 was 33,700 as against 33,783 in 1966.

The Government of Rajasthan have installed a plant in December, 1965 for the recovery of sodium sulphate from sub-soil brine available at Didwana. Its present capacity is 16.50 tonnes of sodium sulphate per day.

The following quantities of important bye-products were recovered during 1966 and 1967 :

(Figures in tonnes)

Year	Gypsum	Magnesium Sulphate	Magnesium Chloride	Sodium Sulphate
1966 ..	43,619	95	6,797	1,933
1967 ..	31,475	137	5,426	3,958

RARE METALS

Investigations carried out by the Atomic Energy Department showed that the deposit of radioactive minerals in India had over 3.3 million tons of ore containing 300,000 tons of thorium of 10 per cent concentration and 10,000 tons of uranium of 0.03 to 0.04 per cent concentration.

The deposits also contain about 80 million tons of ilmenite. The production of ilmenite during 1967, was 41,609 tonnes.

Ilmenite is recovered from the beach sands of Kerala State contributing nearly 93 per cent of the total production and the Manavalakuruchi area in Tamil Nadu. It is mainly exported to U.S.A. and U.K.

Beach sands of Kerala and Tamil Nadu also contain a very useful radioactive mineral monasite. It contains 8 to 10.5 per cent of thorium, 0.3 per cent of uranium oxide, 20 to 31 per cent of cerium, 1 to 1.5 per cent of ultrium and rare oxides 21 to 30 per cent. Thorium oxide forms an important source of atomic fuel. The total reserve of

combined rare earth oxides in beach sands has been estimated at 400,000 tonnes.

Uranium bearing ores have also been discovered in the Himalayan region of H.P. and U.P. and are being presently assessed.

Uranium mine at Jaduguda in Singhbhum District treats about 1,000 tonnes of mine per day worked by

Uranium Corporation of India, a Govt. of India Undertaking.

India's total reserves of uranium are currently reckoned at 15,000 tons and of thorium at 500,000 tons.

The reserves of uranium in India can support about 5-10 million KWs of generating capacity over the life time of the stations.

PRODUCTION & VALUE OF MINERALS (EXCL. GOA)

(Value in Rs. '000)

Mineral	Unit	Total Production		Total Production	
		1966		1967	
		Quantity	Value	Quantity	Value
Coal(a)	'000 tonnes	67,674	1,781,075	68,223	1,979,481
Lignite(a)	"	2,568	56,475(R)	2,929	76,420
<i>Metallic Minerals</i>					
Bauxite	'000 tonnes	750	8,124	789	8,074
Chromite	Tonnes	77,770	5,343	109,535	7,169
Copper Ore	'000 tonnes	481	25,378	459	24,227
Diaspore	Tonnes	1,511	125	1,489	111
Gold(b)	Kg.	3,736(R)	44,979(R)	3,161	46,693
Ilmenite	Tonnes	30,163	912	41,609	1,630
Iron Ore	'000 tonnes	20,065	175,969	18,948	178,755
Lead Concentrate	Tonnes	5,151	2,724(R)	3,995	2,113
Manganese ore	'000 tonnes	1,618	90,048	1,537	98,055
Rutile	Tonnes	1,816	1,789	2,536	2,497
Silver(b)	Kg.	1,220	426(R)	3,470	1,258
Wolfram	"	25,122	279	28,379	433
Zinc Concentrate	Tonnes	8,900	3,559(R)	10,029	4,011
<i>Non-Metallic Minerals</i>					
Agate	Tonnes	493	91	452	90
Apatite	"	16,275	665(R)	11,631	612
Asbestos	"	6,979	1,068	7,014*	1,048
Ball Clay	"	6,801	64	7,732	79
Barytes	"	52,608	1,084	51,707	1,071
Calcite	"	18,039	216	16,063	195
Chalk	"	20,962	331	33,782	557
China Clay (Non-saleable crude)	'000 tonnes	320	N.A.	331	N.A.
China Clay (Saleable crude)	"	229	1,879	182	1,609
China Clay (Processed)	"	91	6,791	98	7,556
Corundum	Tonnes	385	219	306	172
Diamond	Carats	2,113	959	7,626	3,167(a)
Dolomite	'000 tonnes	1,054	12,348	1,144	13,892
Emerald (Crude)(c)	'000 Carats	54	N.A.	38	N.A.
Emerald (dressed)	"	—	—	—	—
Feldspar	Tonnes	27,972	254	25,782	228
Fireclay	'000 tonnes	470	3,960	422	3,405
Fluorite† (graded/sorted)	Tonnes	994	184	412	153
Garnet (abrasive)	"	188	19	283	34
Garnet (Gem variety)	Kg.	5,170	21	6,068	24
Gypsum	'000 tonnes	1,294	10,071	1,028	7,946
Kyanite	Tonnes	63,820	12,802	50,374	11,290
Limestones	'000 tonnes	19,810	142,218	19,503	147,774
Lime Kankar	"	449	722	359	642
Calcareous sand	"	956	637	872	860
Magnesite	"	232	4,056	246	4,727
Mica (Crude)	Tonnes	22,752	23,400	17,017	17,386
Mica (Waste)	"	7,002	N.A.	4,830	N.A.
Ocre	"	32,033(R)	787(R)	36,042	636
Pyrophyllite	"	8,399	136	4,934	84
Quartz & Silica	'000 tonnes	280	2,561	259	2,429
Salt(d)	"	4,508	64,260	4,470	70,117
Sapphire (raw)	Kg.	185	N.A.	189	N.A.
Sillimanite	Tonnes	10,286	807	5,797	454
Slate	"	1,065	159	1,304	184
Steatite	'000 tonnes	149	4,151	130	3,756
Vermiculite	Tonnes	506	17	317	11
Total value		2,494,138		2,733,115	

(a) Coal and lignite figures are inclusive of those for Jammu & Kashmir. (b) Value of the metal given in the absence of value of ore. (c) Value of crude emeralds is not available as emeralds are auctioned in processed forms only. (d) Includes the form of rock salt. * In addition a quantity of 134 tonnes of crude asbestos of 30 per cent grade was also reported from Bihar. † In addition a quantity of 1,095 and 1,201 tonnes during 1966 and 1967 respectively was also reported from Ambadungar area of Gujarat. R—Revised.

PRODUCTION OF METALS AND ALLOYS

(Value in Rs. '000)

								(Value in Rs. '000)		
								Unit	Production	
									1966	1967
<i>Ferrous Metals</i>										
Steel ingots	..	..	..	..	..	..	'000 tonnes	6,608	6,316
Pig iron	..	..	..	..	..	..	"	7,041	6,911
Ferro-chrome	..	..	..	..	..	..	Tonnes	637	69
Ferro-manganese	..	..	..	..	..	..	"	137,482	135,829
Ferro-silicon	..	..	..	..	..	..	"	19,394	22,189
Ferro-molybdenum	..	..	..	..	..	..	Kilograms	—	2,010
Ferro-titanium	..	..	..	..	..	..	"	1,441	7,750
Ferro-tungsten	..	..	..	..	..	..	"	—	2,750
<i>Non-Ferrous Metals</i>										
Aluminium	..	..	..	..	..	..	Tonnes	83,759	96,223
Antimony	..	..	..	..	..	..	"	854	901
Copper	..	..	..	..	..	..	"	9,438	8,904
Gold	..	..	..	..	..	..	Kilograms	3,736	3,161
Lead	..	..	..	..	..	..	Tonnes	2,479	2,474
Silver	..	..	..	..	..	..	Kilograms	1,220	3,470
Zinc	..	..	..	..	..	..	Tonnes	—	3,039

EXPORTS & IMPORTS OF ORES, MINERALS, METALS & ALLOYS DURING 1967 (Value in Rs. '000)

Ore/Mineral	Unit of quantity	Export	Import	Export	Import
Abrasives (Natural)	Tonnes	—	1,981	—	2,559
Alabaster	"	—	43	—	47
Antimony Ore	"	—	1,528	—	4,565
Apatite (Rock-phosphates)	"	—	598,009	—	95,799
Other mineral phosphates	"	—	4,921	—	712
Arsenic Sulphides (Natural)	"	—	10	—	29
Asbestos fibre (Raw)	"	4	29,191	23	51,208
Asbestos (Others)	"	66	594	79	2,466
Total asbestos	"	70	29,785	102	53,674
Asphalt and bitumen (natural including gilsonite)	"	3,048	2,445	734	2,678
Barytes	"	6,607	9	679	28
Bauxite	"	60,873	—	2,560	—
Bentonite	"	407	6	88	24
Borax	"	60	2,593	55	1,794
Chalk	"	6	677	1	220
Chromite	"	77,211	5	15,624	6
Ball-clay	"	—	5,003	—	1,779
China clay (Kaolin)	"	643	3,467	230	1,082
Earth clay	"	4	194	1	213
Fire-clay	"	67	37	7	54
Coal	'000 tonnes	250	1,057	15,111	714
Coke	Tonnes	6,216	113	1,042	83
Briquettes of coal, coke and lignite	"	—	—	—	—
Cryolite	"	—	1,097	—	1,973
Diamond (Industrial crude incl. bort)	Kilograms	—	137	—	12,259
Diamond (gem variety)	"	N.A.	N.A.	160,174	24,306
Earth colours	Tonnes	243	133	78	160
Emerald	"	N.A.	N.A.	12	24,401
Feldspar	"	7,989	—	821	—
Fluorspar	"	453	7,069	268	3,264
Fuller's earth	"	—	66	—	114
Graphite	"	14	1,248	16	1,503
Gravel (incl. crushed stone flint)	"	2	193	2	98
Gypsum and plaster	"	—	3	—	5
Ilmenite	"	20,938	—	1,238	—
Iron-ore	'000 tonnes	13,574	—	726,778	—
Kieselguhr	Tonnes	—	118	—	150
Kyanite	"	40,653	—	15,819	—
Lead-ore & Concentrates	"	—	27	—	75
Lime	"	538	27	93	41
Limestone	"	1,129	—	10	—
Magnesite (calcined)	"	17,025	—	6,073	—
Magnesite (not calcined)	"	2,887	101	875	149
Total magnesite	"	19,912	101	6,948	149

EXPORTS & IMPORTS OF ORES, MINERALS, METALS & ALLOYS—(Contd.)

(Value in Rs. '000)

Ore/Mineral	Unit of quantity	Export	Import	Export	Import
Manganese ore (1st grade 48% and over Mn.) ..	Tonnes	226,063	—	14,932	—
Milled for dry cell primary battery	"	—	5,398	—	3,434
Second grade (35% and above but less than 48% Mn.) ..	"	359,398	—	47,603	—
Ferruginous (less than 35% Mn.)	"	520,889	—	36,729	—
Peroxide ore (Standard 86% MnO ₂)	"	—	205	—	204
Peroxide ore (below 86% MnO ₂)	"	1,818	—	622	—
Others	"	203	—	52	—
Total manganese ore	"	1,108,371	5,603	126,938	3,638
Marble	"	3	7	8	8
Mica blocks	"	1,612	—	66,822	—
Mica Splittings	"	5,527	—	62,407	—
Mica condenser films	"	91	—	13,081	—
Mica others (Scrap, waste, etc.)	"	13,942	—	6,648	—
Total mica	"	21,172	—	148,958	—
Nickel ore concentrated incl. nickel matter	"	—	22	—	243
Precious & Semiprecious stones	"	N.A.	N.A.	143,613	61,300
Red oxide (Persian gulf types)	"	176	2,304	31	2,168
Salt	"	237,006	4	8,248	21
Saltpetre (Potassium nitrate)	"	—	—	2	—
Sand (incl. natural quartz)	"	3,388	499	266	492
Sillimanite	"	2,046	—	1,391	7
Sodium nitrate	"	—	9,597	—	4,102
Sodium nitrite	"	—	1,766	—	1,445
Steatite blocks	"	2,071	2	612	59
Steatite powder	"	8,198	—	2,701	—
Total Steatite	"	10,269	—	3,313	—
Stones (building and monumental)	"	11,337	—	3,613	—
Sulphur	"	—	592,641	—	324,163
Titanium minerals other than ilmenite (rutile)	"	—	651	—	609
Tripoli earths	"	—	92	—	83
Tungsten ore and concentrates	"	—	188	—	4,325
Witherite	"	—	5	—	5
Zinc ore and concentrates	"	—	20,601	—	12,706
Others	"	—	—	2,492	805
Total	"	1,126,751	334,942	1,387,365	650,851
<i>Ferro-Metals</i>					
Ferro-chromium	"	—	1,070	—	3,251
Ferro-manganese	"	24,525	278	22,441	793
Ferro-molybdenum	"	—	157	—	5,505
Ferro-phosphorus	"	—	236	—	178
Ferro-silicon	"	1,910	77	2,068	170
Ferro-tungsten	"	—	24	—	1,032
Ferro-alloys (others)	"	—	518	—	3,418
Total ferro-alloys	"	—	2,360	—	14,347
Pig-iron (incl. cast iron)	"	510,477	—	150,434	—
Iron and steel materials	"	1,057,992	560,891	438,762	1,143,919
Total value of ferrous metals	"	—	—	613,705	1,158,266
<i>Non-Ferrous Metals</i>					
Aluminium	"	1,790	48,401	11,667	224,019
Antimony	"	—	17	—	111
Brass & bronze	"	600	2,118	8,902	32,420
Copper	"	64	44,782	683	414,698
Lead	"	28	41,147	62	72,439
Nickel	"	—	2,639	—	36,668
Platinum	"	—	152	—	3,022
Silver	Kilograms	11,477	302	4,513	164
Tin	Tonnes	29	7,073	198	111,998
Zinc	"	2,502	74,356	1,601	169,600
Miscellaneous non-ferrous metals	"	—	—	2,233	19,701
Total value of non-ferrous metals	"	—	—	29,859	1,084,840
Total value of ferrous and non-ferrous metals	"	—	—	643,564	2,243,106

MISCELLANEOUS INDUSTRIES

DIESEL ENGINES : Towards the end of 1967 there were 29 units in production of stationary type of diesel engines and 2 units for vehicular types. The position of diesel engine manufacturing industry from 1964 onwards is shown below :

(Numbers)

Year	Diesel Engines (Vehicular Types)		Diesel Engines (Stationary Types)	
	Installed capacity	Production	Installed capacity	Production
1964 ..	9,000	8,232	48,612	70,128
1965 ..	9,000	8,676	72,312	87,876
1966 ..	9,000	7,032	69,084	1,14,900
1967 ..	9,000	3,288		

The exports of diesel engines and parts amounted to Rs. 140.7 lakhs and Rs. 122.3 lakhs respectively in 1966-67 and 1967-68 as against Rs. 114.5 lakhs in 1965-66.

Machine Tools : The number of units licensed for the manufacture of machine tools (metal working) in the country at the beginning of 1968 was 70.

By the end of the Third Plan (1965-66), the actual capacity and production of machine tools (organised sector) including accessories were Rs. 30 crores and Rs. 26 crores respectively. The capacity at the end of 1966-67 was placed at Rs. 45 crores and production at Rs. 24 crores. In 1967-68, the capacity was expected to rise to Rs. 50 crores and production to Rs. 25 crores.

Production and Imports of Machine Tools

Year	Production (Rs. crores)	Imports (Rs. crores)
1965	25.5	32.6
1966	28.5	41.0
1967	25.6	38.4

About 50 per cent of the output of machine tools in India comes from the State-owned Hindustan Machine Tools.

Bicycles : India produced 15,40,000 bicycles by the end of the Third Plan. In 1967-68 the production rose to 17,50,000 and is likely to be of the order of 19,00,000 in 1968-69.

The installed capacity and production during the years 1965 to 1967 are given below :

(Numbers)

Year												Installed capacity	Production
1965 .. ..	..	..	..	..	..	..	..	..	..	..	..	16,78,992	15,48,096
1966 .. ..	..	..	..	..	..	..	..	..	..	..	..	16,78,992	16,70,496
1967 .. ..	..	..	..	..	..	..	..	..	..	..	..	16,39,992	17,04,336

The industry can practically meet all internal requirements. It is one industry where all the components are indigenously produced.

Indian cycles have been successfully introduced, on a commercial scale in some foreign countries. The exports of bicycles and parts amounted to Rs. 1.4 crores in 1966-67 and Rs. 2.2 crores in 1967-68.

Apart from bicycles, an overseas market on a small-scale has also been built up for Indian tricycles.

Textile Machinery : By the end of the Third Plan (1965-66) the actual capacity and production of cotton textile machinery stood at Rs. 40.0 crores and Rs. 24.2 crores respectively. In 1967-68 the estimated production was only Rs. 15 crores.

PRODUCTION DATA

(Numbers)

Year	Looms (Calico, semi-automatic and automatic)		Complete Ring Spinning Frames		Carding Engines (Revolving flat cards)		Shuttle	
	Capacity	Production	Capacity	Production	Capacity	Production	Capacity	Production
1964	14,412	4,272	3,756	2,136	2,556	1,944	1,32,000	1,91,376
1965	8,124	3,108	1,680	2,292	1,080	1,812	1,32,000	1,23,600
1966	8,268	2,724	1,680	1,404	1,080	1,092	1,32,000	1,14,132
1967	8,736	1,884	1,680	1,140	1,080	504	1,32,000	95,040

Sewing Machines : At the beginning of 1968 there were six units manufacturing sewing machines with an annual capacity of 469,992 machines.

Production and Capacity of Sewing Machine Industry, 1964-67

Year	Capacity	Production
1964	4,41,996	2,55,360
1965	4,41,996	4,21,452
1966	4,69,992	4,10,940
1967	4,69,992	3,65,808

The output of the sewing machine industry during the first three Plans and during 1966-67 was as follows: 1955-56 : 1,11,000 ; 1960-61 : 3,03,000 ; 1965-66 : 4,30,000 ; 1966-67 : 4,00,000.

India exported sewing machines and parts worth Rs. 53 lakhs in 1966-67 and Rs. 54 lakhs in 1967-68.

Electric Fans : The electric fan industry has made rapid progress during the past two decades.

PRODUCTION OF ELECTRIC FANS IN INDIA

Year	1962	1963	1964	1965	1966	1967
Nos. ('000s)	1,130	1,138	1,085	1,449	1,293	1,381

According to the Annual Survey of Industries (1964), there are 32 units in this industry which employs over 11,500 workers and produces goods worth about Rs. 16 crores.

EXPORT OF ELECTRIC FANS FROM INDIA

Year	1960	1966-67	1967-68
Value (Rs. in lakhs)	85	163	168

By the end of the Third Plan, the output of electric fans rose to 1.5 million from 1.1 million in 1960-61. The

output in 1967-68 was 1.35 million and is likely to rise to 1.40 million in 1968-69.

Electric Motors : By the end of the Third Plan the capacity and production of electrical motors (below 200 h.p.) were 1.75 million horse-power each. The capacity and production in 1967-68 and 1968-69 (likely) are as under (in million h.p.):

Electric motors (below 200 h.p.): 1967-68 : 2.24 ; 2.08 ; 1968-69 : 2.55 ; 2.40.

Electric motors (above 200 h.p.): 1967-68 : 0.55 ; 0.20 ; 1968-69 : 0.55 ; 0.35.

Both the capacity and production of electric motors have for obvious reasons showed a marked increase.

Year	Capacity h.p.	Production h.p.
1964	11,36,400
1965	13,52,400
1966	13,58,400
1967	14,16,000
		20,74,000

Electric Cables and Wires : The country is more or less self-reliant in most types of electric wires. The following table gives the installed capacity and production of some major items in 1966-67, 1967-68 and 1968-69.

Item	Unit	1966-67		1967-68		1968-69 (likely)	
		Capacity	Production	Capacity	Production	Capacity	Production
(1) A.C.S.R. Conductors..	Tonnes	75,490	52,704	89,200	74,000	1,03,000	80,000
(2) V.I.R. and P.V.C. ..	Million metres	783	391	860	380	900	450
(3) Power Cables..	.. Million metres	16,250	20,031	18,774	15,000	19,000	16,000
(4) Dry Core Cables	.. Million metres	3,500	3,100	8,000	5,000	8,000	5,000

India's exports of electric cables and wires amounted to Rs. 120 lakhs in 1966-67 and Rs. 162 lakhs in 1967-68.

Electric Lamps : According to Annual Survey of Industries (1964), there are 24 units engaged in the manufacture of electric lamps and their total output is placed at Rs. 7.3 crores. By the end of the Third Plan, the estimated production of G.L.S. and other lamps was 70 million and that of fluorescent tubes was 4.4 million.

Production of incandescent filament electric lamps in million nos. was 1963 : 66.5 ; 1964 : 66.6 ; 1965 : 67.1 ; 1966 : 75.2 ; 1967 : 73.8.

India has made a small beginning in the exports of electric lamps, bulbs and fluorescent tubes. The value of exports in 1966-67 and 1967-68 was Rs. 14 lakhs and Rs. 11 lakhs respectively.

Production of Electric Transformers

Year	1963	1964	1965	1966	1967
Production in million K.V.A. ..	2.6	3.3	4.3	4.8	5.3

In 1967-68, India imported transformers worth Rs. 3.2 crores. Exports during that year amounted to Rs. 5.9 lakhs.

Soap : The organised sector contains some 59 units with an installed capacity of 2.3 million tonnes per

annum, though all of these are not in actual production, while the cottage sector contains over 3,000 units, scattered throughout the country. There is a concentration of these small factories in those areas where oil-seeds are available in plenty. For example, the Punjab, U.P. and Gujarat have each an annual production of over 40,000 tons of soap while Andhra State produces just 8,000 to 10,000 tons a year. The following figures give the production in lakh m. tonnes in the organised sector from the year 1962. 1962 : 1.5 ; 1963 : 1.6 ; 1964 : 1.6 ; 1965 : 1.6 ; 1966 : 1.7 ; 1967 : 1.8.

It is estimated that the tonnage of oil required for soap alone will grow by 40 per cent every five years and that after twenty years the total annual requirements of oil and fat for all products will have to be increased from about 1.8 million tons to 6.3 million tons.

The item-wise data on the exports of soap from India are shown in the table below :

Item	(Rs. lakhs)	
	1966-67	1967-68
Household and Laundry Soap	19.02	23.80
Medicated Soap	1.99	2.08
Toilet Soap	24.38	22.66
Others	2.48	5.59
Total	47.87	54.13

Agricultural Tractors: The production of agricultural tractors during 1967 was 10,526 against 7,613 in 1966.

In order to meet the demand for tractors in the lower range (below 20 h.p.), for which adequate capacity has not yet been developed, Government decided to establish a public sector project for the manufacture of tractors in this range. For this purpose, an agreement for the preparation of a Detailed Project Report for the manufacture of 20 h.p. tractor was signed in 1966. During 1966-67 and 1967-68, Rs. 2.25 lakhs were spent on this project. In the Annual Plan for 1968-69, a provision of

Rs. 27 lakhs has been made for the Agricultural Tractors project.

The production of steel discs — an important component of tractor driven implements — commenced for the first time in the country during 1965.

Recently, the sale of agricultural wheeled tractors was brought within the ambit of the Essential Commodities Act, 1955 and selling prices of various agricultural tractors were fixed on a statutory basis. A Tariff Commission enquiry has also been completed and its report is under the consideration of the Government (Feb. 1969).

NON-FERROUS INDUSTRY

(See also under "Mines and Minerals".)

COPPER

THOUGH there are many copper fields in India, extraction of copper ores is at present confined to only one area viz. Mosabani area in the Singhbhum district, Bihar, which is operated by Messrs. Indian Copper Corporation. More and more deposits of copper are being located and important among such areas are: Almora and Garhwal in U.P., Singhbhum and Baragunda in Bihar; Khetri and Daribo in Rajasthan; Sikkim; Manipur; NEFA; and Jammu and Kashmir. Detailed work in the Khetri-Daribo area of Rajasthan and Rangpo area of Sikkim has established substantial workable reserves of copper ore — about 28 million tons with an average copper content of 0.8 per cent metal in Khetri and about 0.35 million tons averaging about 6.24 per cent of combined copper, lead and zinc in Rangpo. The deposits in Daribo are found to be rich in copper content but the extent of the reserves is yet to be fully proved.

The Hindusthan Copper Limited will be responsible for completing the Khetri copper project and for the development of other promising copper deposits in the country.

The Khetri copper project is expected to cost Rs. 86 crores and is likely to be completed by 1970. The integrated plant at Khetri will have the capacity to produce annually 31,000 tonnes of electrolytic copper metal and 600 tonnes of sulphuric acid as a by-product to be used for the production of 2.1 lakh tonnes of triple super phosphate fertilizer and acid plants are also proposed to be set up at Khetri in collaboration with the Fertiliser Corporation of India.

The Annual plan for 1968-69 had made a provision of Rs. nine crores for the copper project of Hindusthan Copper Ltd.

Indian units process only fire-refined copper. Electrolytic copper is produced in India only to a small extent. Domestic production meets only a small part of the country's requirements of this metal. A large tonnage of copper, copper alloys and other manufactures has to be imported.

Per capita consumption figures in lb. for refined copper for India and some of the developed countries are given below :

U.S.A. 18.8 ; U.K. 25.7 ; Japan 10.4 ; India 0.34.

Installed capacity and production of copper and allied products :

(Metric tons)

Year	Virgin Metal		Pipes and Tubes		Sheets and Circles	
	Installed capacity	Production	Installed capacity	Production	Installed capacity	Production
1965	9,960.0	9,360.0	4,920.0	560.4	48,000	1,632
1966	9,960.0	9,362.4	4,920.0	624.0	48,000	600
1967	9,960.0	8,904.0	6,120.0	624.0	48,000	1,020

Imports of Copper and Copper Alloys

Q — Quantity in lakh kgs.

V — Value in Rs. lakhs.

Year	Copper and alloys refined or unwrought		Copper and alloys worked		Total	
	Q	V	Q	V	Q	V
1965-66	433.6	2,376.8	151.1	955.5	584.7	3,332.3
1966-67	201.14	2,212.5	144.65	1,695.1	345.79	3,907.6
1967-68	229.64	1,921.7	159.71	1,624.3	389.35	3,546.0

LEAD

Lead ores are known to occur at a number of places in India. The only large deposits now being worked are those of Zawar which is about 17 miles from Udaipur city, where lead is found in association with zinc. The Hindusthan Zinc Ltd. was formed to secure the full development of the potential of Zawar mines

The present mining capacity is 750 tonnes runoff mine ore per day.

Mineral Production

(Tonnes)

Mineral	1965	1966	1967
1. Ore production ..	—	1,57,487	1,65,650
2. Lead concentrates	5,496	5,151	3,995
3. Zinc concentrates ..	9,641	8,900	10,029

The present production capacity of the lead smelter at Tundoo is 5,400 tonnes of lead metal per annum, the output is about 2,600 tonnes per annum.

Installed capacity and production :

(Metric tons)

Year	Virgin Metal		Lead Pipes and Tubes		Lead Sheets	
	Installed capacity	Production	Installed capacity	Production	Installed capacity	Production
1966	6,096.0	2,542.8	4,800.0	246.0	3,000	672
1967	6,096.0	2,473.2	4,800.0	206.4	3,000	1,020

Imports of Lead

Q — Quantity in lakh kgs.

V — Value in Rs. lakhs.

Year	Lead and alloys unwrought		Lead and alloys worked		Total	
	Q	V	Q	V	Q	V
1966-67	497.60	1,035.7	3.28	7.1	500.88	1,042.8
1967-68	347.51	608.0	2.53	12.9	350.04	620.9

ANTIMONY

Antimony ore deposits are situated at the Shigree Glacier in Lahaul, Kangra district, Himachal Pradesh and in the region of Nagpur in Maharashtra State. For antimony, there is only one smelter at Bombay, working on imported ores with a capacity of 1,000 tons.

Statistics regarding installed capacity and production in tonnes during the period 1964 to 1967 are shown below : 1964 : 912.0 ; 840.0 ; 1965 : 996.0 ; 848.0 ; 1966 : 1,002.0 ; 882.0 ; 1967 : 1,002 ; 901.2.

ZINC

Deposits of zinc, at present, are known to occur at only

Imports of Zinc

Q — Quantity in lakh kgs.

V — Value in Rs. lakhs.

Year	Zinc and alloys unwrought		Zinc and alloys worked		Total	
	Q	V	Q	V	Q	V
1965-66	767.0	1,226.5	35.1	57.2	802.1	1,283.7
1966-67	460.82	1,047.9	19.87	48.9	480.69	1,096.8
1967-68	642.10	1,389.1	16.98	40.4	659.08	1,429.5

TIN

Tin ores are in Hazaribagh, Ranchi and Gaya districts of Bihar. At present there is no indigenous production in

the primary metal. So India has to depend on imports. Statistics of imports of tin during recent years are given below.

Imports of Tin

Q — Quantity in lakh kgs.

V — Value in Rs. lakhs.

Year	Tin and alloys unwrought		Tin and alloys worked		Total	
	Q	V	Q	V	Q	V
1965-66	38.4	711.2	1.2	5.7	39.6	750.9
1966-67	28.89	689.2	0.58	3.6	29.47	692.8
1967-68	38.19	947.8	0.26	4.2	38.45	952.0

Imports of Nickel

NICKEL

Q — Quantity in lakh kgs. V — Value in Rs. lakhs.

Year	Nickel and alloys unwrought		Nickel and alloys worked		Total	
	Q	V	Q	V	Q	V
1966-67	3.85	56.5	5.75	87.9	9.60	144.4
1967-68	7.40	132.2	12.54	217.8	19.94	350.0

India has no proven deposits of nickel ores so far.

ALUMINIUM

Aluminium is the only non-ferrous metal which India can produce in large quantities because of extensive deposits of bauxite and adequate supplies of bulk power. At present, considerable attention has been paid for

augmenting the production of aluminium in order to arrest the rising trend in the import of this non-ferrous metal involving considerable foreign exchange.

It is known that India possesses bauxite, the basic raw material for aluminium to the extent of 250 million tons. Only reserves of 25 million tons are stated to have been proved to be suitable for the manufacture of aluminium.

Aluminium — Installed Capacity and Production

(Metric tons)

Year	Virgin Metal		Aluminium Sheets and Circles		Aluminium Foils		Aluminium Wire Rods (ACSR)		Aluminium Rods and Sections (extruded)	
	Installed Capacity	Production	Installed Capacity	Production	Installed Capacity	Production	Installed Capacity	Production	Installed Capacity	Production
1964 ..	53,340	54,539	22,200	22,501	3,000	2,544	29,400	20,256	3,756	3,240
1965 ..	53,340	59,513	43,896	23,568	6,492	2,868	33,996	24,144	6,756	4,596
1966 ..	73,320	63,432	43,896	31,318	6,492	3,564	36,996	26,256	6,756	6,372
1967 ..	93,660	96,430	43,896	32,089	6,492	4,572	36,756	34,716	6,756	6,912

Production

The output increased from 74,000 tonnes in 1966-67 to about 1,00,000 tonnes in 1967-68. At present there are four primary producers — all in the private sector, viz. : Hindustan Aluminium Corporation; Indian Aluminium Company Ltd.; Madras Aluminium Company Ltd.; and

the Aluminium Corporation of India Ltd.

The Bharat Aluminium Company Ltd.—a public sector undertaking, has been entrusted with the implementation of Koyana and Korba aluminium projects in the public sector.

Imports of Aluminium

Q — Quantity in lakh kgs. V — Value in Rs. lakhs.

Year	Aluminium and alloys unwrought		Aluminium and alloys worked		Total	
	Q	V	Q	V	Q	V
1966-67	98.00	385.3	230.62	1,135.7	328.62	1,521.0
1967-68	254.77	1,062.5	133.34	704.1	388.11	1,766.6

The demand for aluminium by 1970-71 is likely to be about 2,75,000 tonnes per annum. The table below shows the details of schemes (expansion/new) being taken up to increase the capacity :

(Tonnes per annum)

Unit	Capacity
A. Private Sector	
1. Existing Installed Capacity ..	1,15,800
2. Mettur (Tamil Nadu) aluminium smelter — expansion	12,500
3. Asansol (W. Bengal) aluminium smelter — expansion	5,000
4. Belgaum (Mysore) aluminium smelter — new	30,000
5. Renukoot (U.P.) aluminium smelter — expansion	60,000
Total ..	2,23,300

Unit

Capacity

B. Public Sector

1. Koyana (Maharashtra) aluminium project — new 50,000
2. Korba (M.P.) aluminium project — new 1,00,000

Total .. 1,50,000

Grand Total .. 3,73,300

BRASS

The position with regard to the production of brass pipes and tubes, and brass sheets and circles respectively from 1963 is as follows : Figures in tonnes : 1963 : 352.8 ; 22,644 ; 1964 : 642.0 ; 20,328 ; 1965 : 1,036.1 ; 13,308 ; 1966 : 654 ; 5,508 ; 1967 : 562.8 ; 8,856.

India's imports of non-ferrous metals amounted to Rs. 85.73 crores in 1966-67 and Rs. 88.73 crores in 1967-68.

PAPER INDUSTRY

THE bulk of the production comprises printing and writing paper. Manufacture of superior varieties is also undertaken. The following table gives the trend of production :—

(In thousand tonnes)

	1962	1963	1964	1965	1966	1967
Printing & Writing	234.4	300.0	320.5	339.1	381.2	373.3
Wrapping	75.5	75.0	85.0	96.1	103.4	121.1
Special Varieties	8.0	6.6	6.5	5.6	6.0	8.6
Paper Boards	69.7	80.0	80.4	101.2	93.9	99.1
Total	387.6	461.6	492.4	542.0	584.5	602.1

According to the Annual Survey of Industries the total factory sector as a whole employed Rs. 91.5 crores (productive capital) in paper industry in 1962.

At present there are 56 paper mills manufacturing paper and paper boards with a total installed capacity of 6.5 lakh tonnes. The aggregate installed capacity of the paper industry was 433,800 tonnes in 1962, as compared to 409,992 tons in 1961.

The Statewise distribution of the industry is as follows :

State	No. of units	Capacity (lakh tonnes)
West Bengal	9	1.20
U.P.	2	0.34
Bihar	2	0.63
Orissa	3	1.02
Punjab	4	0.46
Gujarat	6	0.18
Maharashtra	14	0.73
Andhra Pradesh	2	0.43
Mysore	5	0.70
Kerala	2	0.13
Tamil Nadu	3	0.26
Madhya Pradesh	3	0.57
Total	55	6.65

Most of the mills are not able to supply the specific requirements of various government indentors.

Also, many of these industries are yet to start utilising the discarded parts of the raw materials (i) Where eucalyptus timber is used as raw materials, the leaves can be used for processing, (ii) Cinder from boilers can be used for making bricks, (iii) Sludge can be burnt into lime, (iv) Paper and fibre wastes can be used to make boards and (v) Carbon dioxide and Carbon monoxide can be used for making Calcium Carbonate.

The paper mill at Amlai (Sahdot), in Madhya Pradesh with an annual capacity of 48,000 tonnes and costing Rs. 17 crores is expected to produce well over 200 tons of fine writing printing grades of paper per day. Two new factories for the manufacture of paper will soon be established at Ahmednagar District, the annual capacity of which being 42,000 and 37,200 tonnes.

DEVELOPMENT PROGRAMME

The Union Government have also approved and granted licence for 15 new (large) units with a total capacity of 397,000 tonnes and 35 small units for production of paper and paper boards. Out of these 15 (large) units, 11 will be *bagasse* based units. The three units, which are reported

to manufacture paper and paper boards from *bagasse* are, Rohtas Industries, Mandya National Paper Mills, and Seshasayee Paper and Boards Ltd.

The Planning Commission had envisaged production and capacity targets of 70,000 tons and 90,000—100,000 tons per year respectively, for 1965-66. As on March 1, 1964 there were 30 units with an annual capacity of 92,404 tonnes. Fourteen new units with an annual capacity of 47,100 tonnes have been licensed. With the implementation of these schemes, the indigenous capacity would increase to 1.4 lakh tonnes.

The establishment of a paper mill in Nagaland has been accepted in principle by the Planning Commission and details about the capacity are being worked out.

The capacity for production of paper and paper boards remained static at 711,220 tonnes. New capacity came into operation during the year either from a new unit or expansion of existing units. The actual production of paper and paper boards during 1967 is estimated at 601,000 tonnes as against 585,000 tonnes in the previous year. There has been some loss of production due to a few mills closing down on account of financial difficulties and labour troubles. The supply position of common grades of printing and writing and wrapping paper continued to remain satisfactory. 25,000 tonnes of white printing paper was diverted for use by the newspapers. As against the exports of paper and paper products of Rs. 80 lakhs in 1966 the value of exports during 1967 is assessed to be about Rs. 200 lakhs.

The production of Hardboard during 1967 is expected to be 11,660 tonnes against 16,600 tonnes during 1966. The production of Insulation board during 1967 is estimated to be of the order of 2,027 tonnes against 1,000 tonnes in 1966. The increase is due to increased demand for insulation board used mainly for accoustic treatment of buildings. The estimated production of particle board during 1967 is 7,700 tonnes against 7,083 tonnes during 1966.

In order to achieve self-sufficiency, a production target of 700,000 tons and a capacity target of 820,000 tons was fixed. It was expected to attain production of 680,000 tons by 1965-66. The utilization of capacity in the paper industry has been over 85 per cent during the last several years.

The Kerala Government hopes to establish a packaging paper plant in Alwaye and a newsprint mill in Moolzhiyar as a result of the contemplated expansion of eucalyptus cultivation in the State. At present there is only one unit in the country producing Rayon Grade pulp. Its production increased from about 51,400 tonnes in 1966 to 55,000 tonnes during 1967. The first large mill

for paper grade pulp with a capacity of about 36,000 tonnes per annum was under installation in Gujarat and it was expected to commence production during 1968.

The National Industrial Corporation of the Government of India has prepared the feasibility report for setting up two paper plants costing Rs. 22 crores in Jammu and Kashmir to be implemented during the IV Plan, for manufacturing rayon grade pulp and newsprint and white printing paper.

Besides, it has been proposed to start one newsprint factory in Punjab with a capacity of 60,000 tonnes. A Rs. 60-crore newsprint project in the private sector is expected to be set up near Gola Gokkaram Nath in U.P. with a capacity of 30,000 tonnes per year.

The *per capita* consumption of paper in India at present stands at 2.6 lbs., as compared with 453 lbs. in the U.S., 126.4 lbs. in Japan and 207 lbs. in the U.K. Hence, it is imperative that the industry should expand even though there is actually a glut in certain varieties of paper such as ordinary writing paper, printing and wrapping paper.

NEWSPRINT

Newsprint is a special kind of paper whose production is governed by rigid process specifications. It is produced

from a mixture of mechanical or ground wood pulp (70 to 80 per cent) and chemical or wood-free pulp (20 to 30 per cent).

The National Newsprint and Paper Mills Ltd. (Nepa), a public sector undertaking is the only Indian newsprint factory (for more details see under Govt. Industrial Undertaking). The project made a record production of about 31,000 tonnes (over 1,000 tonnes more than its rated yearly capacity) in 1967-68.

The Nepa newsprint factory will increase its production from the present 30,000 tonnes to 75,000 tonnes a year under an expansion programme costing Rs. 11 crores. The additional production was expected to start in November 1968 and full production will be reached by the end of 1969. The additional production is based on imported pulp. With the additional production the country will save foreign exchange worth Rs. 8 crores spent on importing newsprint. The country's requirement for newsprint for this year is estimated at about 200,000 tonnes.

The following table summarises the production of paper and paper board industry during 1961 to 1967 :

('000 tonnes)

	1961	1962	1963	1964	1965	1966	1967
Paper board	65.1	69.7	78.6	79.7	101.2	93.9	99.0
Insulation board	1.8	1.7	2.0	1.6	2.2	0.9	1.8
Hard board	2.2	2.6	2.6	3.4	4.1	4.6	3.2
Newsprint	25.7	24.9	30.4	28.8	29.5	29.3	37.4

Value of yearly import of newsprint (in Rs. crores) from 1960-61 onwards is as follows: 1960-61: 9.37; 1961-62: 15.30; 1962-63: 12.02; 1963-64: 10.92; 1964-65: 11.66; 1965-66: 9.74; 1966-67: 12.37 and 1967-68: 9.44.

The main supplying countries of newsprint to India are Canada, Finland, Norway, Poland, Sweden and U.S.S.R.

Among paper producing nations, India ranks 20th. U.S.A. is the largest producer, followed by Canada, Japan, U.K., U.S.S.R., West Germany and France in the order of precedence.

FOURTH PLAN

The reconstituted development council for paper, pulp and allied industries has agreed to targets of 810,000 tonnes for paper and paper board, 75,000 tonnes for newsprint, 90,000 tonnes for rayon and 30,000 tonnes for paper grade pulps for the Fourth Plan.

India was estimated to produce 635,000 tonnes of paper and paper board at the end of 1968-69.

The council also agreed to set up additional capacity of 480,000 tonnes of paper and paper board and 300,000 tonnes of newsprint during the span of the Fourth and Fifth Plans.

PETROLEUM INDUSTRY

TODAY, there is hardly an industry which does not use some kind of petroleum product. Some of the main products have the following uses.

Kerosene is used as an illuminant and a cooking fuel. Motor Spirit and Aviation Spirit are used as fuel by automobiles and aircraft respectively. High Speed Diesel Oil is used by trucks, buses and tractors. Furnace Oil is used in various industrial units including power generation. Mineral Turpentine is used as a base in paints and varnishes. Wax is used for manufacturing candles. Lubricants are used for lubricating machines. Bitumen is used in road-making and for insulation. Chemicals produced from petroleum sources and generally known as petrochemicals are used for industrial and agricultural purposes.

Crude oil is processed in a unit called a refinery for obtaining various products. There are hundreds of products manufactured from crude oil.

The demand for petroleum products in India has been steadily growing with the years. Between the years 1948 and 1968, the total inland demand has increased from 2.24 million tonnes to 15.81 million tonnes, representing an annual average growth rate of about 10.25 per cent.

Individual petroleum products have been showing a rise in consumption over the years. Marked increases have been registered in the consumption of products like high speed diesel oil, furnace oil and naphtha.

The *per capita* consumption of petroleum in India is very low. The *per capita* consumption of some selected countries are given below: U.S.A. 3.38 K.L.; Australia 1.65 K.L.; Ceylon 0.122 K.L.; Burma 0.04 K.L.; India 0.03 K.L.

India's production of crude oil was about 5.67 million tonnes during 1967 and it rose to about 5.9 million tonnes in 1968. In order to bridge the gap between indigenous

availability and the demand, India has to import crude oil from various countries.

During 1967 the crude throughput in refineries in India was 14.43 million tonnes. This rose to 16.1 million tonnes in 1968. A little over a third of this throughput will be based on indigenous crude. By the end of 1973, the refining capacity is expected to be about 27.3 million tonnes per annum.

OIL EXPLORATION AND PRODUCTION

At present oil exploration and production in India are undertaken by three agencies: The Assam Oil Company, The Oil India Ltd., and the Oil and Natural Gas Commission.

The sedimentary areas in India exist to some extent in practically all States of the Indian Union and the area covers about 1.04 million square kilometres. The sedimentary regions also exist in the off-shore regions of India such as off Cambay and Kutch; off parts of Gujarat & Maharashtra States, off the Coromandel coast, Palk Straits and the Gulf of Mannar and areas around the mouths of Ganges and Mahanadi rivers; areas off the Kerala coast and the Andaman and Nicobar Islands. The Assam Oil Company and the Oil India Ltd., operate within the areas allotted to them in Assam State while the Oil and Natural Gas Commission is responsible for exploration over the remaining parts of the country. Technical training institutes have been set up by the Commission to train personnel required by its Directorates and Projects. In addition, the Commission has a Research and Training Institute at Dehra Dun. The activities of the three producing companies are briefly described below:

Assam Oil Company: The Assam Oil Company was formed as a result of the merger of the Assam Railway and Trading Co. and the Assam Oil Syndicate. Details of the above two Companies were given in the 1965-66 Directory. The current throughput of the Digboi Refinery is 0.5 million per year.

Assam Oil Company has drilled nearly 1,000 wells so far out of which nearly 600 are in operation now. The present rate of production of Assam Oil Company is of the order of 0.13 million tonnes.

Oil India Ltd.: The headquarters of the Company is at Duliajan in Upper Assam.

Oil India Ltd. has an authorised capital of Rs. 50 crores, divided into 500,000 shares of Rs. 1,000 each. In terms of an agreement signed in 1961, the Govt. of India and the Burmah Oil Company became equal partners in Oil India Ltd.

Oil India Ltd. has drilled upto Dec. 1968, 273 wells out of which 219 are oil or gas producing.

Oil India Ltd. propose to drill 11 wells during 1969. This Company has already discovered crude oil reserves capable of sustaining an annual production of three million tons. This quantity of oil is committed for supply to Gauhati in Assam and Barauni in Bihar owned by I.O.C. and the Digboi refinery owned by A.O.C. in Assam.

OIL AND NATURAL GAS COMMISSION

The Oil and Natural Gas Commission has its Hqrs. at Dehra Dun. About 20,000 persons are employed on its staff. The Commission has eight Directorates—Geology, Geophysics, Drilling, Production, Inspection of equipment, Administration, Finance, Stores and Purchase and separate Departments of Mech., Civil and Transport, Research and Training Institute, Hind Oil Design Institute and Planning and Control Division.

Geological and geophysical surveys are carried out by the Commission in various parts of the country—Jammu & Kashmir, Punjab and U.P. foot-hills and plains, Bihar, Assam, West Bengal, Gujarat, Kutch, Rajasthan, the Cauvery basin in Tamil Nadu, the Godavari basin in Andhra Pradesh and coastal regions of Kerala and Andaman & Nicobar islands.

On the basis of results of geological and geophysical surveys, drilling has been in progress in a number of States of the Indian Union, particularly in Gujarat and Assam. As a result of this drilling, oil and gas have been found in a number of areas of which the most important are at present the Cambay gas field, the Ankleswar, Kalol and Nawagam oil fields in Gujarat, and the Rudrasagar and Lakwa oil fields in Assam. In Gujarat, commercial reserves of oil and gas have been proved and the same are being produced. In Assam the Rudrasagar and Lakwa fields, also have commercial reserves and after further drilling and testing will be put on commercial production. Up to Jan. 1969, a total of 525 wells have been drilled in Gujarat and it is estimated that these fields are capable of producing about 3.8 million tonnes of crude per annum. Based on these reserves, a refinery at Koyali, in Gujarat has been constructed which is owned by the I.O.C. and is at present operating at a throughput of about 2.75 million tonnes. Oil has been discovered by the ONGC in commercial quantity in two structures in Assam at Lakwa and Rudrasagar. Trial production from Rudrasagar and Lakwa fields has commenced. 107 wells have been drilled in Assam on ONGC's Structure by January 1969.

The Oil and Natural Gas Commission produced 2.78 million tonnes of crude during 1967 and 2.96 million tonnes in 1968. It earned a profit of Rs. 12.78 crores during 1968-69.

The Commission entered into an agreement with the National Iranian Oil Company for exploration and production of oil in certain off-shore areas in the Persian Gulf in collaboration with AGIP of Italy and Phillips of U.S.A. Drilling is still in progress. As a result of the drilling, oil has been struck on Rustam structure and ONGC's share after production is stabilised will be about 0.75 million tonnes per year.

PRIVATE SECTOR REFINERIES

The Digboi Refinery of the Assam Oil Company produced a total of 485,615 tonnes of petroleum products in 1968. Its annual throughput during 1968 was 0.52 million tonnes.

The two private sector refineries owned by Burmah-Shell and Esso are located at Trombay near Bombay while the Caltex refinery is at Vishakapatnam. The throughput of these refineries are: Burmah-Shell 3.77 million tonnes; Esso 2.55 million tonnes; Caltex 1.54 million tonnes during 1968.

PUBLIC SECTOR REFINERIES

The first public sector refinery at Gauhati was commissioned in January 1962. The refinery produced 0.83 million tonnes in 1968. The Rumanian Government have provided the necessary technical and financial assistance for the refinery.

The second public sector refinery at Barauni in Bihar was commissioned in the second half of 1964. The initial capacity of two million tonnes has been expanded to three million tonnes since Jan. 1969.

The foreign exchange cost and technical assistance for the Barauni refinery is being met out of the Soviet credit.

The third public sector refinery has been constructed at Koyali near Baroda in Gujarat and was commissioned

in October 1965. Its initial capacity was two million tonnes and has been increased to three million tonnes since February 1967. The technical assistance and financial assistance has been supplied by the Soviet Union.

Cochin Refinery.—This is a participatory refinery project in the public sector, the principal collaborators with the Government being Messrs. Phillips International, U.S.A. It was commissioned on 23rd Sept. 1966.

The Refinery has been designed to produce annually 2.5 million tonnes of petroleum products.

Indian Oil Corporation Ltd.—This Corporation was formed by the merger of Indian Refineries Ltd. and the Indian Oil Company Ltd. A separate division of the Corporation called the Refineries Division is looking after the two public sector refineries at Gauhati and Barauni. With effect from April 1, 1965, the ownership of the Gujarat Refinery has also been transferred to the Indian Oil Corporation Ltd. (Refineries Division) from the Oil and Natural Gas Commission.

In order to meet the additional demand for petroleum products it has been decided to increase the refining capacity to about 27.3 million tonnes by the end of 1973. The additional Refineries to come up are the Madras Refineries (was to be commissioned during the 1st quarter of 1969 with a capacity of 2.5 million tonnes) which is a participatory project with Messrs. National Iranian Oil Co. and the American International Oil Co. while the Haldia Refinery will be built in collaboration with French and Rumanian agencies for which agreements have been signed in September 1967.

Lubrizol India Ltd.—With the growth and expansion of the petroleum industry, the demand for additives rapidly increased in the country. In order to meet this increasing demand and at the same time to conserve foreign exchange, the Government of India decided that additives should be manufactured indigenously. With this objective in view, negotiations were concluded with the Lubrizol Corporation of Cleveland, U.S.A. and on December 2, 1965 a Formation Agreement was signed. On July 20, 1966 Lubrizol India Ltd. was duly registered as a limited company. In the equity capital of the company, the Government of India holds 51 per cent and rest 49 per cent is held by the other partner.

The plant was commissioned in November 1968.

Lube India Ltd., Bombay.—An agreement was signed on September 15, 1965 between the Government of India and Messrs. Esso Standard Eastern Inc. of U.S.A. in equal partnership for the establishment of a 145,000 tonnes Lubricant base oil plant to be located adjacent to Esso's refinery in Bombay. It will manufacture high and medium viscosity lubricating base oils.

PIPELINES

Gauhati Product Pipeline.—This pipeline which is designed for the transport of petroleum products from Gauhati Refinery, was completed and commissioned in November 1964. The foreign exchange cost has been met out of ENI credit from Italy.

Barauni Kanpur/Haldia Pipeline.—This pipeline has been constructed for the transport of petroleum products from the Barauni Refinery to areas of consumption. The foreign exchange cost will be met out of ENI credit from Italy.

Gujarat Pipeline System: The following pipelines for the transportation of crude oil, gas and products have been constructed: Cambay-Dhuvaran Gas Line; Ankleshwar-Uttaran Gas Line; Ankleshwar-Baroda Gas

Line; Ankleshwar-Koyali Crude Line; and Koyali-Ahmedabad Product Pipeline. The foreign exchange cost was met out of ENI credit from Italy.

DISTRIBUTION

The consumption of petroleum products in 1968 was about 15.8 million tonnes which has been distributed through a wide distribution net-work in all parts of India.

At present the major oil distributing companies are Indian Oil Corpn. (wholly owned by the Government), Burmah-Shell, Esso, Caltex and the Assam Oil Company. These companies obtain their products from the refineries in India and also import certain amount of products for distribution.

With an annual turnover of about Rs. 400 crores, at present, the Corporation has become the largest oil marketing organisation in India. Its market participation in 1968 for major products was 43 per cent. During 1968-69 the sales of I.O.C. are estimated at about 8 million kilo litres.

Prices

As a result of the Government's decision on the Report of the Oil Price Inquiry Committee headed by Mr. K. R. Damle, the private oil companies reduced the price of crude oil twice by 2 cents and 4 cents per barrel during Dec. 1964 and July 1965 respectively. This led to a saving in foreign exchange of about Rs. 2 crores.

The Union Government appointed on May 13, 1964 a working group headed by Mr. J. N. Taluqdar, to re-examine the pricing principles. This Committee submitted its report to the Government in Aug. 1965 and the Government have enforced the prices recommended by them in respect of a number of products w.e.f. 1-2-1966. Import duties were imposed on crude for the first time; but these were later withdrawn to keep up the prices as far as possible after devaluation.

At present a committee under the chairmanship of Shri Shanti Lal H. Shah, is again examining the prices of crude and petroleum products and is likely to submit its report by the end of 1969.

MISCELLANEOUS

A joint committee of the Government and representatives of the private oil industry known as Oil Advisory Committee was set up by the Government of India to study problems of supply, distribution and future demand of POL products in relation to indigenous production and refining capacity. In this way, a machinery has been set up for close and continuous consultation between the private and public sectors on matters of common interest. Representatives from the Government and oil industry are associated with the working of this Committee.

RESEARCH

Research is being conducted in all phases of the petroleum industry. The ONGC has set up a Research and Training Instt. at Dehra Dun with the help of the U.N. for research and training in the exploration and production phases of the industry. The Indian Instt. of Petroleum in Dehra Dun was set up under the control of the Council of Scientific and Industrial Research to conduct research and training in the refining and marketing phases of the industry.

BURMAH-SHELL REFINERIES LTD.

Burmah-Shell Refineries Ltd. commenced operating a petroleum oil refinery at Trombay on January 30, 1955.

The crude oil intake of the Refinery is about four million tons per annum; the crude oil comes from the Persian Gulf area.

The Refinery manufactures motor spirit, kerosene, high speed diesel oil, light diesel oil, fuel oil, bitumen, liquefied petroleum gas and special boiling point solvents.

The total cost of the Refinery was about Rs. 26 crores and the total number of employees engaged in the various categories at present is around 1,380.

Residential quarters for key operating staff have been provided at a short distance from the refinery, and in addition, Burmah-Shell Refineries Ltd. have paid Rs. 40 lakhs to the Maharashtra Government for the provision of houses for Refinery labour employees and their families in the Chembur-Ghatkopar area.

CALTEX OIL REFINING (INDIA) LTD.

The Caltex Oil Refinery is located at Visakhapatnam. Its products include petrol, Aviation Jet Fuel, Liquefied Petroleum Gas, Mineral Turpentine, Kerosene, Diesel Oil

and Fuel Oils from the Refinery's flexible two-stage crude oil distillation unit, the fluid catalytic cracking unit with gas recovery facilities, the propane decarbonisation unit and treating and blending plants. Other products like Light Solvents and Asphalt are also made available.

The Visakhapatnam Refinery occupies an area as large as 515 acres.

ESSO REFINERY

The Refinery is situated on Trombay island, near Bombay, costing about Rs. 17.5 crores. The refinery is capable of running 62,000 barrels of crude oil per stream day nearly 3.1 million tons a year of crude oil.

Initially the Refinery was designed to process 25,000 B/CD of crude from the Middle East. Besides stepping up refining capacity, new products such as bitumen, jute batching oil, solvents and liquefied petroleum gas were introduced to meet the growing needs of the country and save foreign exchange. The Esso Bombay Refinery saved foreign exchange of over Rs. 102 crores during its fourteen years of operation.

PLASTICS INDUSTRY

THE U.S.A. produces the largest quantity of plastics followed by Germany, Japan, U.K. and the U.S.S.R.

The Indian plastics industry is centred mostly in the Bombay, Amritsar, Bangalore, Delhi, Kanpur and Madras areas, and today there are more than 200 well organised units and at least about 10 times as many smaller units in the small-scale and cottage industries sectors.

Almost 80 per cent of the processing section of the plastics industry is in the Small Scale sector. Also this sector shares about 50 per cent of the exports of pure plastics products.

The articles now manufactured cover a wide range of household consumer and utility items, electrical accessories, telephone equipment, gramophone records, insulated wires, combs, toys, tooth brushes, spectacle frames, hand-bags, leather cloth, packaging materials, films, industrial items and accessories for automobile engineering, radio and air-conditioning industries. Production of mechanised toys has been an important achievement in recent years.

In spite of the sizable inroads made by the plastics industry in recent years, the *per capita* consumption of plastics in India is still incomparably small. The *per capita* consumption of 0.1 kg. of plastics in India compares very poorly with that of 29.8 kg. in West Germany, 24.7 kg. in the U.S.A., 15.7 kg. in Britain, 14.4 kg. in France, and 13.9 kg. in Japan.

The industry has made an impressive beginning in the field of exports. The major items of exports are PVC leather cloth, plastic films, bangles, spectacle frames, electrical accessories, cables, and plastic-coated jute for packaging. The Plastic and Linoleum Export Promotion Council now plans to export about Rs. 10 crores of plastics products in the next three to four years. The following statement briefs India's export performance from 1961-62 to 1967-68 in crores of rupees: 1961-62 0.83; 1962-63 1.05; 1963-64 2.64; 1964-65 3.19; 1965-66 2.71; 1966-67 3.77; 1967-68 3.29 (provisional).

The target for 1968-69 is set at Rs. 5.0 crores and that for 1973-74 at Rs. 15.0 crores.

In 1966, production in India reached about 52,000 tonnes. This is much too insignificant compared to world standards. For example, in the U.S.A., the annual turnover of plastics is estimated to be around six million tonnes,

in West Germany and Japan over two million tonnes, and in the U.K. over a million tonnes.

It is estimated that by 1972, 120,000 tons of raw materials for the plastic industry will be available from petrochemical complexes. It is further estimated that the country's requirements of plastics by 1972 would be around 400,000 tonnes. Against this, in 1967, the licensed capacity was only of the order of 165,000 tonnes, the actual production being much lower.

In August 1967, the excise levy on plastic raw materials was increased by as much as 50% from 24 to 36% *ad valorem* (including the surcharge). The following table sets out the data on the progressively increasing yield from the excise duty collected from the plastics industry, although on widening base of output.

Yield on Excise Duty from Plastics Industry

Year						Duty collected (Rs. lakhs)
1961-62	..	..	..	..	..	111.0
1962-63	..	..	..	..	..	157.7
1963-64	..	..	..	..	..	249.5
1964-65	..	..	..	..	..	540.1
1965-66	..	..	..	..	..	584.2
1966-67	..	..	..	..	..	666.7

The First Plan aimed at expansion and consolidation of the processing sector of the plastics industry. During the Second Plan, it was targeted to increase the plastic production from 1,000 tonnes to 11,000 tonnes by 1960-61. The industry was able to reach the target. The Third Plan envisaged plastic production of about 74,000 tonnes by 1965-66. This, however, could not be achieved. The stagnation in the plastic production has of late been disappearing gradually and the production outlook has improved.

The consumption of plastics which was about 36,000 tonnes in 1961, increased to about 50,000 tonnes in 1965, and about 65,000 tonnes in 1967. It was expected to reach about 70,000 tonnes during the year 1968.

The present production of plastic goods is valued at Rs. 45 crores and is expected to reach about Rs. 120 crores by the end (1973-74) of the new Fourth Plan (about 235,000 tonnes).

IMPORTS OF PLASTIC RAW MATERIALS IN INDIA

Year	Quantity (tonnes)	Value (Rs. crores)
1962-63	19,506	6.48
1963-64	12,704	4.71
1964-65	16,305	6.10
1965-66	14,693	5.80
1966-67	11,795	6.27
1967-68 (Apr.-Feb.)..	29,062	11.90

PRODUCTION OF PLASTIC RAW MATERIALS
IN INDIA 1962 to 1967

Year	Production (tonnes)
1962	17,628
1963	20,328
1964	29,307
1965	37,189
1966	36,556
1967	36,385
	(Provisional)

TOTAL EXPORTS OF PLASTIC GOODS FROM INDIA
For 1966-67 and 1967-68

Commodity	1966-67	1967-68	Target for 1967-68
Linoleums	32.92	57.28	40.00
PVC Leather Cloth	64.96	53.51	100.00
PVC Sheeting ..	5.15	26.56	
Electric Accessories	26.38	24.41	
Spectacle Frames ..	11.58	14.14	20.00
Fountain Pens ..	2.27	4.95	5.00
Bangles	13.55	12.97	20.00
PVC Fabricated goods	3.62	6.00	30.00
Moulded goods ..	15.54	17.25	
Extruded goods ..	10.03	6.81	
Polylined Jute goods	170.34	90.20*	150.00
Raw materials ..	16.47	9.01	—
Residuary	4.79	6.30	15.00
Total	377.60	329.39	400.00

* Estimated. Source: Plexconcil Bulletin.

RAYON INDUSTRY

Rayon, Synthetic Fibres, and Cellulose Film

THERE are at present about 67,000 powerlooms, 1.8 lakh handlooms and 100 wrap knitting machines working purely on rayon/synthetic yarn. The present capacity for the manufacture of rayon/synthetic fabrics is 996 million metres.

Gwalior Rayon were the first to manufacture rayon grade pulp from indigenous resources—such as Bamboo, Eucalyptus and other woods, as early as 1963 and the production of rayon grade pulp for the last three years has been as under: 1965-66: 49,500 tonnes; 1966-67: 53,000 tonnes and 1967-68: 53,000 tonnes. Other rayon grade pulp manufacturers are Travancore Rayons and S. I. Viscose with capacity of 6,000 and 21,000 tonnes respectively.

For this country the man-made fibre industry may be said to have commenced in 1950, with the setting up of the first viscose plant. Since then several such units were established. Apart from staple fibre, we are now producing polyester fibre.

Also in retrospect India's man-made textiles have always a glorious past. And again little wonder that compared with 1951, there has now been a three-fold increase in the output of rayon and synthetic fibres, the annual production having already reached 100 million metres. Indeed, this industry even after having about 100,000 power looms with an additional planned capacity of 40,000 looms in the coming five years and a production capacity of at least 950 million metres of art silk on 1.75 shift basis continue to expand and diversify its production pattern to cope with the recent world trends.

According to an estimate, out of the requirements of 1,10,000 tonnes (corresponding to the targeted capacity of 61 million kg. for viscose filament yarn and 42 million kg. for staple fibre) our present productive capacity is about 60,000 tonnes. Obviously we would have to rely on imports.

The above difficulty may be partly overcome if expansion of viscose rayon capacity is allowed on the staple side at present to the extent desired by the planning subgroup. Besides, the following considerations further support this expansion: (a) rayon can never be regarded as an outmoded fibre and still the same has plenty of life in it; (b) rayon is most widely used and least expensive of all fibres—its quality and processability in staple form being superior to any other synthetic and natural fibre; and (c) the newer synthetic fibres are not its primary competitions except in certain specific market.

VARIETY-WISE CONSUMPTION

(i) Viscose Rayon Filament Yarn:

The first commercial production of viscose rayon filament yarn in the country commenced in July 1950 with a production capacity of 1.82 million kg. per annum. It shot up from 262 lakh kg. in 1962 to 348 lakh kg. in 1967—an increase of 32 per cent. During this time the imports of viscose yarn dwindled from 88 lakh kg. to nil. This is significant since the man-made textile industry now entirely depends on the indigenous production of viscose rayon filament yarn for its requirements. Another revealing thing is that the popularity of viscose rayon filament yarn has not increased as compared with the non-cellulose fibres.

(ii) Acetate Rayon Filament Yarn:

The production of this type of yarn increased in the country from 14 lakh kg. in 1962 to 17 lakh kg. in 1967—an increase of 22 per cent. The imports of this type of yarn dropped from 13 lakh kg. to nil. The imports were partly replaced by the indigenous production and partly due to fall in demand. The table on the next page shows the production, imports and availability of man-made fibre yarn.

(In thousand kg.)

Type of man-made fibre yarn	1962	1963	1964	1965	1966	1967
Viscose rayon filament yarn						
Production	26,237	31,221	35,294	35,213	33,311	34,760
Imports	8,835	4,992	1,734	144	284	1
Availability	35,072	36,213	37,028	35,357	33,595	34,761
Acetate rayon filament yarn						
Production	1,388	1,953	2,136	2,033	1,337	1,704
Imports	1,330	610	879	199	14	6
Availability	2,718	2,563	3,015	2,232	1,351	1,710
Synthetic filament yarn						
Production	176	743	1,175	1,479	1,921	2,456
Imports	3,628	4,611	6,763	4,070	4,492	3,725
Availability	3,804	5,354	7,938	5,549	6,343	6,181

Requirements of Raw Materials: The chief raw materials for the viscose process of filament and staple fibre, are rayon grade pulp, caustic soda and sulphur. The requirements of these raw materials for the production of 96 million lb. of viscose filament, 64 million lb. of staple fibre and 32 million lb. of acetate filament and acetate staple fibre are estimated as follows:—

Rayon grade pulp	82,000 tons
Caustic Soda	80,000 "
Sulphur (including carbon disulphide)	60,000 "
Alcohol	6.4 million gallons
Cotton linters (for acetate process only)	13,000 tons

In addition, small quantities of copper sulphate, ammonia, sodium hydroxide, cotton linters and sulphuric acid will be required for the manufacture of cuprammonium and phenol and ammonia for the manufacture of caprolactum.

The entire requirements of rayon grade pulp are at present met by imports. A number of schemes for the

manufacture of rayon grade pulp with a total annual capacity of about 270,000 tons have, however, been licensed or recommended for licence under the Industries Act.

If the total availability of cellulosic and non-cellulosic fibres is considered, one can find that there is a substantial increase from 750 lakh kgs. in 1962 to 1,095 lakh kgs. in 1967—an increase of 20 per cent. But if the availability of both fibres is considered separately, one can notice that the cellulosic fibres has increased from 738 lakh kgs. in 1962 to 984 lakh kgs. in 1967, while the non-cellulosic showed an increase from 52 lakh kgs. in 1962 to 111 lakh kgs. in 1967. Thus the percentage increase of availability in the case of non-cellulosic fibres was 113 per cent as against 25 per cent for the cellulosic fibres. This can, however, be explained by citing low basis production of non-cellulosic fibres in 1962 as also by the greater popularity of the synthetic fibres among the consumers.

The table below shows the actual production achieved in 1965-66 and 1967 as compared to the Third Plan targets.

(lakh kgs.)

Type	Third Plan target fixed for production	Actual production in 1965-66	Actual production in 1967	Percentage increase or decrease over Third Plan target
Viscose rayon filament yarn	350	345	348	- 0.6
Acetate rayon filament yarn	110	20	17	-85.0
Viscose rayon staple fibre	290	260	521	+79.0
Acetate rayon staple fibre	40	—	1	-98.0
Viscose tyre cord yarn	90	110	100	+11.1
Synthetic filament yarn	45	15	25	-44.4
Synthetic staple fibre	10	14	30	+200.0

The production of man-made fibres in 1967 was 1,052 lakh kgs. as against the Third Plan target of 980 lakh kgs. It is a matter of satisfaction that considering the overall production of the man-made fibre industry, it has

not remained behind but it has gone ahead of the Third Plan target of 8 per cent. The production of man-made fibres in India and the total world production is given in the following table.

(In million kgs.)

Year	Rayon + Acetate			Non-cellulosic			Total man-made	
	Yarn	Staple	Total	Yarn	Staple	Total		
WORLD								
1962	..	1,201	1,655	2,856	638	441	1,079	3,935
1963	..	1,232	1,819	3,051	778	554	1,332	4,383
1964	..	1,329	1,950	3,279	976	712	1,688	4,967
1965	..	1,369	1,956	3,325	1,122	924	2,046	5,371
1966	..	1,366	1,955	3,323	1,348	1,128	2,476	5,799
1967	..	1,324	1,917	3,241	1,469	1,349	2,817	6,058

(In million kgs.)

Year	Rayon + Acetate			Non-cellulosic			Total man-made
	Yarn	Staple	Total	Yarn	Staple	Total	
INDIA							
1962	..	28	32	60	—	—	60
1963	..	33	32	65	1	—	66
1964	..	37	37	74	1	—	75
1965	..	37	37	74	2	1	77
1966	..	35	43	78	2	3	83
1967	..	36	52	88	2	3	83

The import of man-made fibres, the import of man-made fibre fabrics and the export of man-made fibre fabrics are shown in the following table :

Year	Import of man-made fibres		Import of man-made fabrics		Export of man-made fabrics	
	(Quantity in lakh kgs.)		(Quantity in lakh metres)		(Quantity in lakh metres)	
	Rayon yarn	Synthetic yarn	Rayon fabrics	Synthetic fabrics	Rayon fabrics	Synthetic fabrics
1961 ..	182.8	19.5	2.3	5.4	548.3	86.2
1962 ..	136.4	36.3	1.5	1.9	748.9	28.3
1963 ..	73.3	46.1	1.1	0.7	742.8	13.9
1964 ..	47.4	67.6	1.7	0.5	642.3	6.9
1965 ..	14.5	49.4	2.3	3.0	298.0	71.4
1966 ..	3.5	40.0	1.7	1.7	16.5	2.5
1967 ..	0.3	29.5	16.7	3.0	27.1	13.6

ART SILK

The art silk weaving industry is an important one in Punjab which leads all the other States of India in the development of small industries. Amritsar and Ludhiana are the two important centres where this industry is concentrated. Amritsar has about 1,200 weaving units with an installed capacity of about 9,000 power looms while about 5,000 looms are installed in Ludhiana in over 650 factories. The Punjab, therefore, has a total of 14,000

looms installed which account for nearly 18 per cent of the total loomage in India.

The present crisis in the industry is the result of the two-month labour strike in 1965, followed closely by the Indo-Pak war. Crippled already by these blows, the industry received another set-back at the time of devaluation, when all the export promotion schemes were suspended. Another difficult problem for the industry is the ever increasing price of art silk yarn which has registered a rise of no less than 75 to 80 per cent.

RUBBER INDUSTRY

INDIA produced 64,468 metric tonnes of raw rubber during 1967-68 as against 54,818 metric tonnes in 1966-67.

During the five-month period, April to August 1968, 25,058 tonnes of natural rubber, 10,384 tonnes of synthetic rubber and 5,700 (estimate) tonnes of reclaimed rubber were produced in India. Production of natural rubber suffered a set-back during the period due to the unprecedented continuous and heavy rain fall.

The consumption of all kinds of rubber during the period in India was 51,369 tonnes against 46,061 tonnes during the same period last year.

A total of 1,199 tonnes of rubber was imported during the period against 8,830 tonnes during the same period last year.

Of an area of about 4,48,724 acres under rubber cultivation at the end of 1967-68, 4,19,216 acres are located in the State of Kerala. Other rubber growing areas are the districts of Kanya Kumari, Coimbatore, Salem,

Nilgiris and Madurai in Tamil Nadu and Coorg and Chickmagalur in Mysore State, and Andamans, Tripura and Goa.

The total number of rubber estates registered up to the end of 1967-68 was 93,385.

The following are other details :—

Year	Planted area in acres	Tappable Area (worked out on the basis of year of planting) in acres	Production (Metric Tonnes)	Average yield per hectare in kgs.
1964-65	383,813	268,000	45,616	420
1965-66	407,014	278,500	50,530	448
1966-67	423,193	280,500	54,818	483
1967-68	448,724	290,800	64,468	548

STATEWISE DISTRIBUTION OF THE PLANTED AREA AT THE END OF 1967-68

(Area in acres)

STATES	Holdings		Estates	
	No. of units	Area	No. of units	Area
Kerala ..	91,205	280,240	597	138,976
Tamil Nadu	1,446	7,965	41	12,672
Mysore ..	76	720	13	7,089
Andamans	Nil	Nil	3	958
Tripura ..	1	20	Nil	Nil
Maharashtra	1	40	Nil	Nil
Goa	2	44	Nil	Nil

Areas upto and including 50 acres are classified as *Small Holdings* — (small growers).

Areas above 50 acres are classified as *Estates* — (large growers).

With effect from October 20, 1967, the Government of India fixed for all classes of business minimum prices, exclusive of sales tax, for the various grades and qualities of rubber and latex of different concentrations, excluding the cost of container.

The quantities actually consumed during the last few years in metric tonnes were :

1964-65 : 76,342 (natural 61,057; synthetic 15,285);
1965-66 : 85,318 (natural 63,765; synthetic 21,553);
1966-67 : 92,277 (natural 68,685; synthetic 23,592);
1967-68 : 97,842 (natural 74,518; synthetic 23,324).

Imports of rubber in metric tons were : 1964-65 : 18,318 (natural 15,003; synthetic 3,315); 1965-66 : 19,092 (natural 16,357; synthetic 2,735); 1966-67 : 29,150 (natural 23,544; synthetic 5,606); 1967-68 : 12,678 (natural 9,551; synthetic 3,127).

The production of natural rubber at the end of the Third Plan was 50,530 tonnes as against target of 45,000 tonnes. The estimate for the current year is placed at 72,000 tonnes. In 1967-68 the percentage consumption of synthetic rubber to total consumption of natural and synthetic rubber was 24 per cent.

The total value of rubber plantation in the country is estimated at over Rs. 104 crores. The rubber plantation industry offered direct employment to about 127,000 workers in 1966-67 and means of livelihood for over 6 lakh people according to a modest estimate.

SYNTHETIC AND NATURAL RUBBER

Synthetic rubber (polymer) or man-made rubber is the chemical combination of two or more molecules (monomer) resulting in the formation of a new compound (a large molecule polymer) of the same empirical formula but of greater molecular weight. Natural rubber consists mainly of a polymer of isoprene.

Different varieties of synthetic rubber are : Styrene Butadiene Rubber (SBR), Butyl Rubber, Neoprene, Cis-polyisoprene, Cis-polybutadiene, Polysulphide Rubber and Nitrite Rubber.

The production of natural rubber by the end of 1967-68 has reached 64,000 tonnes. In case of synthetic rubber, 1,20,000 tonnes capacity would be established by 1970-71.

The major producers of natural rubber according to their rank in production in 1966 are Malaysia, Indonesia, Thailand, Ceylon, Nigeria, India, Liberia, Cambodia,

Viet Nam, Congo and Brazil. The above countries account for about 98 per cent of the world rubber output.

The following table shows the trend of total area under rubber cultivation, production and average yield during the last three years in our country.

Year	Total area (hectares)	Production (Tonnes)	Average yield (kg. per hectare)
1964-65..	155,324	45,616	420
1965-66..	164,713	50,530	448
1966-67..	171,260	54,818	482*

* In yield per acre (lbs.) it is 430.

Source : Up to 1965-66 data, *Indian Rubber Statistics—1966*. For 1966-67 *Rubber India* of India Rubber Industries Association, December 1967.

However, compared with other producing countries in the world, India's share in the total production is only two per cent as can be seen from the following table :

Country	Production during 1966 ('000 tonnes)	Percentage to total production
Malaysia*	1,003	41.2
Indonesia	711	29.1
Thailand	207	8.5
Ceylon	131	5.4
Nigeria	77	3.2
India	53	2.2
Viet Nam	49	2.0
Cambodia	51	2.1
Liberia	54	2.2
Brazil	24	0.9
Congo	25	1.1
Others	51	2.1
Total	2,436	100.0

* Includes Singapore also.

India is leading other rubber producing countries as far as the rate of increase in production and productivity is concerned, it being as high as 13.37 per cent.

The production, import and consumption of natural and synthetic rubber during the last four years is given below :

(In tonnes)				
Year	Production	Import	Consumption	
1964-65..	57,249	18,318	76,342	
1965-66..	65,271	19,092	85,318	
1966-67..	77,176	29,150	92,277	
1967-68..	66,066	10,956	73,125	
(April-Dec.)				

The production and consumption of reclaimed rubber is depicted below :

(Tonnes)				
Year	Production	Consumption		
1964 ..	4,637	9,006		
1965 ..	7,756	9,650		
1966 ..	10,832	10,578		
1967 (Jan-Aug.)	7,916	7,904		

Source : *Rubber India* of Indian Rubber Industries Association, February 1968 and October 1967.

Consumption : In 1966, more than 25 lbs. of rubber, i.e. both natural and synthetic, were consumed per head in the U.S.A. The per capita figures for the highly industrialised countries of Western Europe for the year ranged from about 8 lb. to 15 lb. In that year too, Canada consumed about 17½ lb. per head, Japan 10 lb., Australia 13½ lb., the U.S.S.R. and other Eastern European countries nearly 5 lb., China just over ½ lb. and India less than ½ lb.

Rubber Goods : India has a modern manufacturing industry engaged in the manufacture of various rubber goods such as tyres, toys, rubber footwears, tubes, hoses, fan belts, water-proof fabrics — Mackintosh, latex foam sponges and other rubber components of railway fittings etc. Of this, the manufacture of tyres and tubes accounts for more than 70 per cent of the total consumption of rubber. The present installed capacity of the various

tyre manufacturing units is as follows : Dunlop 10,24,800; Firestone 6,72,000; Ceat 4,50,000; Goodyear 3,50,000; Mansfield 3,60,000; Premier 2,40,000; Inchek 2,00,000; Total 32,96,800.

However, to have an assured production of 40 lakh tyres by 1970-71, the installed capacity will have to be raised to 48 lakh tyres.

The total capital investment in the automobile tyre industry exceeds Rs. 25 crores. Prices for tyres and tubes are controlled by the Government.

Rubber foot-wear industry is the second largest among rubber goods industries. There are about 19 well-organised units producing about 60 million pairs in addition to many small units throughout the country. A Rubber Development Wing at New Delhi has been set up to give assistance to this potential industry.

The progress of the rubber goods manufacturing industry is given below :—

	1962	1963	1964	1965	1966	1967
Footwear (lakh pairs)	496.8	585.6	470.4	530.4	522.0	545.6
Dipped Rubber goods (lakh dozens) ..	3,076.8	740.4	3,075.7	2,841.3	2,206.8	2,180.6
Tyres :						
Automobile ('000)	1,708.8	1,926.0	2,090.9	2,090.9	2,350.4	2,475.5
Bicycle ('000)	11,838.8	14,186.4	16,156.0	18,122.4	19,639.2	22,348.1
Tractor (No.)	56,556	43,212	74,544	94,032	90,228	92,885
Aero (No.)	3,064	15,660	14,052	14,052	10,440	10,397
Cab ('000 metres)	48.0	60.0	48.0	27.6	9.6	9.4
Tubes :						
Automobile ('000)	1,521.6	1,642.8	2,208.0	2,365.2	2,208.0	2,753.9
Bicycle ('000)	11,574.6	13,342.8	15,194.3	17,923.2	20,449.1	19,352.9
Tractor (No.)	53,748	63,144	75,180	97,032	80,880	105,869
Aero (No.)	2,940	3,696	4,608	2,172	1,488	1,870
Hoses ('000s) :						
Radiator	204.0	207.6	276.0	446.4	524.4	392.4
Vacuum Brake	1,113.6	1,920.0	1,220.4	561.8	458.8	926.6
Other types ('000 metres)	5,049.6	6,390.4	6,584.4	7,848.4	6,708.0	6,141.5
Fan Belts ('000s)	981.6	1,591.0	1,328.4	1,490.6	1,707.6	2,052.4
Rubber components of Rly. fittings ('000s)	1,078.3	1,330.5	1,156.8	963.9	523.2	614.2
Ebonite ('000 metres)	135.6	141.6	132.0	146.4	109.2	107.2
Waterproof fabrics ('000 metres) ..	4,758.6	6,466.8	4,627.2	3,907.2	3,788.4	4,278.1
Latex foam sponge (kgms)	1,662.3	1,662.0	1,056.0	1,111.2	1,051.2	1,209.2

Source : Rubber News, August 1968.

General : The first synthetic rubber plant in Asia was commissioned in 1964 at Bareilly (U.P.).

On January 31, 1968, India's biggest petro-chemical complex of NÖCIL, which have a capacity of about 25,000 tonnes of synthetic rubber went on stream.

Old rubber trees, which are normally burnt as waste, may soon provide the raw material for a range of dresses and other clothing. The Sanyo Pulp Co. Ltd., Tokyo, has developed a process for converting rubber wood into rayon pulp.

The export statistics of rubber goods (of which selected items are given below) between 1963-64 and 1966-67 has shown steady progress as can be seen from the following table :

Value in Rs. thousand (post devaluation)

Items	1963-64	1964-65	1965-66	1966-67
Hoses	1,258.1	938.7	788.3	643.1
Rubber footwear	711.3	782.8	789.4	518.2
Rubbersoled footwear with canvas upper	7,265.0	11,357.5	13,976.6	19,234.0*
Cycle tyres & tubes ..	3,478.5	1,658.6	2,309.4	4,406.2
Motor cycle tyres and tubes ..	21.4	29.3	101.0	109.2
Other articles of rubber ..	954.0	1,438.5	2,908.5	1,443.1

* Adjusted and estimated.

Source : Rubber India of Indian Rubber Industries Association, December 1967.

IMPORTS

Considerable quantities are being imported to meet the increased domestic demand of the manufacturing industry.

(Rs. lakhs)

Imports	1960-61	1961-62	1962-63	1963-64	1964-65
1. Crude rubber, including synthetic and reclaimed ..	1,078.22	1,010.37	1,023.22	975.04	542.89
2. Rubber fabricated materials	22.59	15.72	21.4	23.19	22.39
3. Rubber manufactured articles	302.85	333.09	154.13	174.93	116.75

Import duty : An initial duty of 5 per cent was introduced in May 1957. But this was increased to 10 per cent in March 1961 and 22 per cent in April 1963. With the regulatory import duty of 10 per cent introduced in Feb.

1965, the present duty comes to 32 per cent. But the excise duties on tyres, tubes, footwear and cycle parts have been totally removed.

SERICULTURE AND SILK

NEXT to handloom and khadi, sericulture is the biggest village industry extending part or whole-time employment to about 3.2 million people. Sericulture provides raw materials for India's traditional handlooms which consume over 90 per cent of raw silk output. Exports of pure silk fabrics, fetched about Rs. 41 million in foreign exchange in 1967. The target of exports of pure silk fabrics for the Fourth Plan period has been fixed at Rs. 309.5 million.

A physical target of 3.0 million kgs. of raw silk has been fixed at the end of the Fourth Plan as against actual production of 2.229 million kgs. in 1967.

Silk is cultivated in 12 out of 17 States and in 3 out of 10 Union Territories. Mulberry silk is produced mainly in three States viz., Mysore, West Bengal and Jammu and Kashmir which together account for 98 per cent of the total mulberry silk production.

Among the non-mulberry varieties, tasar is extensively reared in the forest regions of Bihar, Madhya Pradesh and Orissa. Assam produces about 90 per cent of eri silk and the entire Muga silk is its exclusive production.

There are at present two Govt. Spun Silk Mills—at Channapatna in Mysore State and Assam Spun Silk Mills Ltd., at Jagi Road in Assam. The two mills together have an installed spindleage of 9,000 for spun silk yarn and 840 for noil yarn and the rated production capacity is 45,000 kgs. of spun silk yarn and 57,400 kgs. of noil yarn annually.

SILK INDUSTRY IN STATES

Andhra Pradesh

Andhra State produces small quantities of the three varieties of silk viz., mulberry, eri and tasar. The production of mulberry, eri and tasar during 1967 was 127 kgs., 12 kgs. and 376 kgs. respectively. The State possesses great potential for tasar. Mulberry silk industry is confined to the districts of Anantapur and Chittoor, eri culture to Mahbubnagar and Kurnool while tasar to the forest regions along the banks of the river Godavari in Karimnagar, Warangal and Adilabad Districts. It has a flourishing handloom silk weaving industry dispersed in Peddapuram, Dharmavaram, Siddipet, Raparti, etc.

Assam

Assam is the biggest non-mulberry State having an extensive eri culture, exclusive muga culture and a little

of mulberry silk production. The main silk cultivating districts are Goalpara, Kamrup and Nowgong in the Assam valley. Sibsagar is the main area for mulberry production. Since there are no large-scale industries in this border State, silk cultivation plays a vital role in its economy. It is estimated that about a million people derive their livelihood from silk cultivation.

There are 11 silk farms, two mulberry graft nurseries, four mulberry silk reeling units, four muga farms, 12 eri grainages and 33 cocoon growers' and reelers' co-operatives and one experimental tasar seed station. Three cocoon marketing centres have been set up. There is also a well-equipped seri-cultural training institute and a research institute at Titabar. For utilisation of silk waste, the State Government has set up a 3,000 spindle Assam Spun Silk Mills at Jagi Road.

Bihar

Bihar is predominantly a tasar-producing State, contributing about 40 per cent of India's total tasar silk production. It is also the biggest eri silk-cultivating State after Assam. Bihar has also a small mulberry silk production. About 1,20,000 people, it is estimated, derive their livelihood from silk cultivation.

Bihar produces over 1,07,636 kgs. of tasar raw silk annually. For development of the tasar silk industry, the State Government has set up in recent years 16 tasar seed supply stations, 42 sub-stations, 18 training centres, four marketing centres and 15 co-operatives. There is also a silk institute in Bhagalpur. The Central Silk Board established a central tasar research station at Ranchi in 1964. The State Government have decided to set up a spun silk mill with 3,000 spindles at Bhagalpur during the Fourth Plan.

Jammu & Kashmir

Kashmir is considered as a prolific source for univoltine silk in India. The industry is mainly practised in the districts of Anantnag, Baramulla, Doda, Jammu, Reasi and Udhampur. The annual production of raw silk is about 66,832 kgs. or about four per cent of the total mulberry silk output. The industry provides employment to about 3,50,000 persons. The Kashmir Valley has the most suitable climate for univoltine silkworm rearing.

There are also 45 mulberry nurseries — 29 in Jammu and 16 in Kashmir and four basic graft nurseries — two in Jammu and two in Kashmir. In recent years two basic seed cocoon farms have been set up. Besides, there are two hibernation centres at Srinagar and Batote. The C.S.B. has also established a Central Silkworm Seed Station in Srinagar for production of grand parent stock seed evolving suitable race of silkworms.

The entire cocoon output is reeled by filatures located in Srinagar and Jammu. These two factories have five units having a total installed capacity of 749 basins. There are no *cottage basins* or *charkas* in the State.

Madhya Pradesh

Madhya Pradesh is the leading tasar producing State. The industry provides employment to about 50,000 rural people. The State has also a small mulberry silk production.

There are nine mulberry silk farms, one grainage, one graft nursery and a reeling unit, eight tasar seed farms, two tasar training centres, six tasar cocoon markets, a tasar research unit and one reeling and spinning unit. The Central Silk Board has established a Central Tasar Silkworm Seed Station at Lakha in 1964.

Maharashtra

In Maharashtra, Bhandara and Chanda districts have traditional tasar culture and there is one tasar farm at Armori; the State has also taken up eri cultivation on experimental basis. The Maharashtra State Khadi and Village Industries Board has under its fold two mulberry farms at Gureghar and Wai mainly for the purpose of research and demonstration.

Mysore

Mysore is the biggest polyvoltine mulberry silk producing State in India contributing over three-fourths of the total mulberry silk production. The industry is concentrated in the districts of Bangalore, Kolar, Mandya, Mysore and Tumkur and to a small extent in Belgaum and Coorg. About seven per cent of the total population of the State derives livelihood from silk cultivation. The State Sericultural Department has spotted the presence of tasar silkworm in the forests of Sirsi (North Kanara District) and a scheme for development of tasar industry is under implementation.

There are about 78,000 hectares under mulberry cultivation. The yield of leaf per acre from rainfed plantations is about 1,800 kgs. and from irrigated areas about 3,600 kgs. per year. Nearly five to six crops are taken from irrigated plantations and four to five from rainfed ones. There are four graft nurseries producing over six lakh grafts of improved strains.

At present there is a hill rearing station at B.R. hills for preservation of stock races and their amelioration. There are six nurseries, 35 silk farms, 54 grainages, 489 licensed seed preparers and 107 chawki centres.

Raw silk reeling is done by traditional *charkas* by improved *cottage basins* and also by filatures. Mysore produces about 7.00 lakh kgs. of *charka* silk (including 14,000 kgs. of dupion silk), 4.57 lakh kgs. of cottage basin and 1.27 lakh kgs. of filature silk. The State has at present over 4,250 active *charkas*, 2,850 cottage basins and 1,000 filature basins.

The Silk Marketing Co-operative Society, Bangalore has recently set up branches at Nanjangud and Kancheepuram (Tamil Nadu). There are 61 Government cocoon markets established under Mysore Silkworm Seed Act in

addition to a voluntary cocoon market at Ramnagaram. For utilisation of silk waste, the State has a Spun Silk Mill with 6,000 spindles. Besides, it has a sericultural training school at Channapatna and a silk conditioning house in Bangalore. The Central Sericultural Research and Training Institute, Mysore has a Central Silk Board project functioning at Mysore. The State has a flourishing silk twisting industry with over 60,000 spindles and a silk weaving industry with over 7,500 hand-looms and 2,600 power-looms.

Orissa

Orissa is a non-mulberry State having traditional tasar silk industry. The annual production of tasar silk is about 15,500 kgs. About 1,15,000 people depend for their bread on this pursuit. The State has no mulberry culture.

The State has now three seed supply stations, two eri seed stations, one reeling and spinning centre, one research unit and 19 tasar rearers' co-operative societies. The State has established a Tasar Co-operative Society in 1963. Besides tasar rearers' co-operatives, four weavers' co-operatives have also been organised.

Punjab

Sericulture is practised mainly in the districts of Amritsar, Gurdaspur, Hoshiarpur and to some extent in Ferozepur also. Mulberry is raised as tree and is mainly cultivated for their fruits and timber.

The present requirement of industrial seed in the State is 1,500 ozs. which is prepared at Dalhousie grainage. The State has a Basic Seed Station at Sujampur. A demonstration-cum-training centre for reeling is operating at Dinanagar. Almost the entire cocoon crop is reeled on *charkas*.

Tamil Nadu

The sericulture industry in Tamil Nadu is at present confined to the districts of Coimbatore, Nilgiris, Salem and Tirunelveli. The industry provides employment to about 6,000 people. Mulberry is raised as 'bush'. The area under mulberry was 1,658 hectares in 1967. There are 11 mulberry graft nurseries, one basic seed farm, four Government silk farms, one Government grainage, two chawki units, one reeling unit of 25 basins, four cocoon markets, one gut section at Coonoor and a Sericultural Co-operative Society at Talvadi. Tamil Nadu at present produces about 3,950 kgs. of raw silk. It is one of the major raw silk consuming States with over 20,000 handlooms on silk weaving.

Uttar Pradesh

The State accounts for an annual production of 3,000 kgs. of mulberry silk.

Mulberry silk industry is practised in six districts of Dehra Dun, Etawah, Garhwal, Gorakhpur, Nainital and Saharanpur. Eri culture is carried on in two districts of Rampur and Deoria and tasar culture is found in Mirzapur district.

Both bivoltine and polyvoltine silkworm races are reared. Forty-five chawki rearing centres and four demonstration silk farms have been set up. For production of disease-free seed, there are three grainages, and for production of basic seed cocoons, four farms. Recently 35 rearers' co-operatives and an apex society have been organised in the State. A co-operative silk filature of 30 basins was established in 1964. U.P. is a major raw silk consuming area with over 30,000 silk handlooms concentrated in Varanasi alone.

West Bengal

Mulberry culture is practised in the districts of Bankura, Birbhum, Darjeeling, Malda and Murshidabad. The annual production of mulberry silk in the State is 2.91 lakh kgs. Mulberry is cultivated as 'bush'. There are about 6,500 hectares under mulberry. There are 16 mulberry nurseries and 12 Government grainages and 40 aided grainages. The State has also four mulberry graft nurseries, three in Malda and one in Murshidabad district. Three tasar seed stations with their sub-stations and three eri seed stations are functioning in the State.

There is a foreign race seed station at Kalimpong and a hill nursery for raising F1 seed of foreign races at Matigara. Two chawki rearing centres have also been set up.

Raw silk reeling is done on traditional *charka*. The use of Cottage basins for reeling has shown a progressive increase. A 100-basin filature has been set up at Madhughat (Malda Dist.). The State has established two training institutes — one for sericulture at Berhampore and other for reeling at Peddie (Malda). Besides, the Central Government's Central Sericultural Research Station is also located at Berhampore. The silk conditioning house is stationed at Calcutta. The important weaving centres are Bishnupur, Baswa, Raghunathpur and Chak Islampur. There are over 4,500 hand-loomers in the State.

UNION TERRITORIES

Himachal Pradesh

Himachal Pradesh rears bivoltine mulberry silkworms. Kangra district forms a potential zone for production of reeling cocoons. The other regions where sericulture is practised are Sirmur and Mandi districts. The State has 22 mulberry graft nurseries, 53 block mulberry plantations, one basic seed station at Nagrota, two Government Grainages and 13 mulberry farms, one reeling-cum-demonstration centre and one silk filature at Nurpur. The present requirement of industrial seed in the State is about 1,400 ozs.

Manipur

Manipur has both mulberry and eri silk cultivation and potential for muga and tasar culture. Manipur produces about 300 kgs. of mulberry and about 250 kgs. of non-mulberry silk. The territory has three silk farms, and demonstration centres for eri and muga. There are over 4,000 rearers.

Tripura

Sericulture has been recently introduced. In addition to six mulberry farms, two demonstration centres, one for eri rearing and the other for tasar rearing have been set up. Some 50 families have taken up silk cultivation as source of their livelihood.

CENTRAL SILK BOARD

An apex body consolidating and coordinating the sericulture industry in States, is the Central Silk Board. CSB is a 'body corporate' charged with functions 'to promote development of silk industry by such measures as it thinks fit'. The measures include rendering financial and technical assistance, 'undertaking, assisting or encouraging scientific, technological and economic research', 'devising means for improvement of all sectors', collection of statistics and to advise the Central Government on all matters relating to the raw silk industry, including import and export of raw silk.

Liaison Offices: In order to co-ordinate the developmental activities of silk industry in the States, the Board

has set up liaison offices in New Delhi, Calcutta, Bangalore and Srinagar.

Main Activities

1. *Providing Funds for silk schemes:* CSB recommends financial assistance in the form of either grant-in-aid or loan for execution of silk schemes by the State Governments.

2. *Providing Technical Know-How:* CSB gives assistance for scientific and technical work undertaken by States' sericulture departments and helps them to secure technical personnel and guidance. The Board has so far sponsored visits of four sericultural experts from Japan and deputed 20 Indian Sericulture Officials to Japan and two to China. CSB also appoints experts' committees to help States to overcome major problems. *Service Stations:* Central Silk Board has established a Service Station viz. Central Silkworm Seed Station at Srinagar for production of basic seed. It has taken over from the Government of Tamil Nadu, the Hill Rearing Station at Coonoor (Nilgiri District) now named as Silkworm Seed Station to function as a sub-station for the Central Silkworm Seed Station, Srinagar. It has also established a Central Tasar Silkworm Seed Station at Lakha (M.P.). The Board also contemplates to set up a pilot centre in Himachal Pradesh for demonstrating the modern techniques of rearing/reeling with improved appliances.

Sericultural Research:

Central Silk Board has co-ordinated sericultural research in the country. The Board is guided by a Committee of scientists on all matters relating to sericultural research. The Research Institute/Stations working under the control of the Board are:

The Central Sericultural Research & Training Institute, Mysore;

The Central Tasar Research Station, Ranchi, Bihar.

The Central Sericultural Research Station, Berhampore (W.B.) and

The Sericultural Research Station, Titabar, Assam.

Training:

Central Silk Board is also assigned the task of training technical personnel on all India basis. The All India Sericultural Training Institute, Mysore, has been integrated with the Board's Research Station at Mysore. So far 280 candidates from various States have been trained.

Distribution of Imported Silk: CSB advises the Government of India on import policy.

Domestic demand for raw silk in the country has always been in excess of the country's production. The Tariff Commission had estimated in 1966, the demand for mulberry and non-mulberry silk at 2.2 million kgs. for 1967 against which production in 1966 was 2.046 million kgs. Imports of raw silk are arranged to meet the gap between demand and production and also to meet the requirements of high grade imported silk by specialised sectors of the industry. Imports during 1967 amounted to 0.42 lakh kgs. valued at Rs. 54.67 lakhs as against 0.45 lakh kgs. valued at Rs. 44.64 lakhs in 1966. From June 1966, imports of raw silk are permitted under the liberalised import policy for exporters against their export performance.

With effect from 2nd January, 1965, quality inspection of tasar silk fabrics was introduced to conform to minimum specifications prescribed, with a view to ensuring a sound foundation for export trade in tasar fabrics.

Exports: Exports of mulberry silk fabrics earned Rs. 2.88 crores in 1967 as against Rs. 2.22 crores in 1966 and Rs. 1.73 crores in 1965, while tasar exports fetched Rs. 0.54 crore in 1967 as opposed to Rs. 0.46 crore in 1966 and Rs. 0.72 crore in 1965. Of late Japan, West Germany, Sweden and Hong Kong have evinced keen interest in our tasar fabrics, the former two countries importing goods worth rupees eleven lakhs each.

The U.S. is our biggest market for mulberry silk fabrics importing goods worth Rs. 56 lakhs in 1967 followed by Sweden (Rs. 44 lakhs). Other major importers are Hong Kong, U.S.S.R., Japan, Malaysia, the U.K., and West Germany.

A variety-wise review of exports, indicates that dress materials and furnishing fabrics, valued at Rs. 1.58 crores in 1967, constituted over 50 per cent of our mulberry silk exports, while scarves and sarees accounted for 19 per cent and 14 per cent respectively. Other items in the list of our fabrics exports are ties, garments, brocades, silk embroidery yarn, etc. Of late readymade garments

are gaining ground abroad whose exports were valued at Rs. 32 lakhs in 1967 against export of negligible value in 1964.

Devaluation gave a prop for our silk waste exports. Silk waste exports were of the order of 6.68 lakh kgs. in 1967 earning Rs. 66.49 lakhs in foreign exchange as against 7.51 lakh kgs. valued at Rs. 63.49 lakhs in 1966.

Under the present export policy of silk waste, the silk waste of South Indian origin is allowed to be exported only through Madras Port and is linked with supplies effected to the indigenous spun silk mills situated at Channapatna (Mysore) and Jagi Road (Assam).

Protection to Sericulture Industry: The Government of India have accepted the recommendation of the Tariff Commission that protection to the sericulture industry should be continued for a further period of three years upto the 31st December 1969 at the existing rate of protective duty viz. 30 per cent *ad valorem* only.

Production of Raw Silk (1967)

MULBERRY RAW SILK

						(in kg.)					
State						Filature	Cottage Basin	Charka	Dupion	Total	
Andhra Pradesh	..	..	..	..	—	127	—	—	—	127
Assam	..	..	..	..	..	—	—	16,220	—	16,220
Bihar	..	..	..	..	..	—	—	781	—	781
Jammu	..	..	..	..	..	12,975	—	—	248	13,223
Kashmir	..	..	..	..	..	53,609	—	—	—	53,609
Madhya Pradesh	..	..	..	..	..	—	588	—	—	588
Mysore	..	..	..	..	..	1,27,321	4,57,000	6,84,000	15,622	12,83,943
Punjab	..	..	..	..	..	—	292	1,145	—	1,437
Tamil Nadu	..	..	..	..	..	—	995	2,952	3	3,950
Uttar Pradesh	..	..	..	..	..	2,761	—	—	459	3,220
West Bengal	..	..	..	..	..	3,605	22,234	2,65,053	—	2,90,892
Himachal Pradesh	..	..	..	..	..	—	271	—	10	281
Manipur	..	..	..	..	..	—	12	53	4	69
Tripura	..	..	..	..	..	—	5	—	—	5
Total						..	2,00,271	4,81,524	9,70,204	16,346	16,68,345

NON-MULBERRY RAW SILK

						(in kg.)			
State						Tasar	Eri	Muga	Total
Andhra Pradesh	..	..	..	..	..	376	12	—	388
Assam	..	..	..	..	..	—	1,96,875	69,000	2,65,875
Bihar	..	..	..	..	..	1,07,636	8,561	—	1,16,197
Madhya Pradesh	..	..	..	..	..	1,48,000	—	—	1,48,000
Maharashtra	..	..	..	..	..	1,384	—	—	1,384
Orissa	..	..	..	..	..	15,500	—	—	15,500
Uttar Pradesh	..	..	..	..	..	115	93	—	208
West Bengal	..	..	..	..	..	7,927	5,262	—	13,189
Manipur	..	..	..	..	..	—	226	—	226
Tripura	..	..	..	..	..	—	400	—	400
Total						2,80,938	2,11,429	69,000	5,61,367

Production of Raw Silk Mulberry and Non-mulberry respectively from 1963 to 1967 (in lakh kgs.): 1963: 14.23; 4.76; 1964: 14.66; 4.77; 1965: 16.34; 5.18; 1966: 15.02; 5.44; 1967: 16.68; 5.61.

Silkwaste Production (1967)
MULBERRY

(in kg.)

State	Filature	Cottage Basin	Charka	Dupion	Total
Andhra Pradesh	—	65	—	—	65
Assam	—	—	7,000	—	7,000
Bihar	—	—	781	—	781
Jammu	11,445	—	—	2,285	13,730
Kashmir	36,840	—	—	—	36,840
Madhya Pradesh	—	319	—	—	319
Mysore	81,612	2,05,000	2,16,000	—	5,02,612
Punjab	—	148	384	—	532
Tamil Nadu	—	304	842	—	1,146
Uttar Pradesh	2,041	—	—	—	2,041
West Bengal	2,400	13,822	1,38,414	—	1,54,636
Himachal Pradesh	—	108	2	—	110
Manipur	—	2	1	—	3
Tripura	—	4	1	—	5
Total ..	1,34,338	2,19,772	3,63,425	2,285	7,19,820

NON-MULBERRY

(in kg.)

State	Tasar	Eri	Muga	Total
Andhra Pradesh	189	11	—	200
Assam	—	65,625	22,000	87,625
Bihar	81,515	—	—	81,515
Madhya Pradesh	67,000	—	—	67,000
Maharashtra	570	—	—	570
Orissa	5,875	1,000	—	6,875
Uttar Pradesh	—	—	—	—
West Bengal	4,055	—	—	4,055
Manipur	—	11	—	11
Tripura	—	—	—	—
Total ..	1,59,204	66,647	22,000	2,47,851

Production of Silkwaste Mulberry and Non-mulberry respectively from 1963 to 1967 (in lakh kgs.): 1963: 6.50; 2.21; 1964: 6.94; 2.29; 1965: 7.14; 2.72; 1966: 6.52; 2.62; 1967: 7.20; 2.48.

SHIPPING INDUSTRY

SHIPPING is an integral and essential part of our Economy, helping towards greater self-reliance in regard to the transport of our exports and imports, and saving and earning for the country a large amount of foreign exchange.

Indian ships are in a position to carry the entire dry cargo and about 20 per cent of the wet cargo moving on the coast. In spite of the significant expansion that has

taken place, Indian tonnage is not yet in a position to carry more than 12 per cent to 15 per cent of the country's foreign trade. This is because the volume of the country's international trade has also registered a steep increase with the growing industrial development and the expansion of the country's export trade. Nevertheless, Indian ships earn about Rs. 50 crores in foreign exchange every year.

TONNAGE ACHIEVEMENTS

(Ships of 150 g.r.t. and above)

	COASTAL		OVERSEAS		TOTAL	
	No. of Vessels	g.r.t.	No. of Vessels	g.r.t.	No. of Vessels	g.r.t.
1st April (I Plan beginning)	71	205,609	23	166,679	94	372,378*
31st March 1956 (end of 1st Plan) ..	90	239,927	36	239,953	126	479,880(a)
31st March 1961 (end of IIInd Plan) ..	97	313,694	75	544,139	172	857,833(b)
31st March 1966 (end of IIIrd Plan) ..	99	322,761	122	1,217,715	221	1,540,476(d)

(a) In addition, there were ships totalling about 120,000 g.r.t. under construction or on order for Indian Shipping Companies.

(b) In addition, there were ships totalling over 65,000 g.r.t. under construction or on order for Indian Shipping Companies.

(c) Subsequently raised to 1.25 m. g.r.t. and then to 1.325 m. g.r.t.

(d) In addition, there were ships totalling about 500,000 g.r.t. under construction or on order for Indian Shipping Companies.

* The Planning Commission's figure is 390,707 g.r.t. which actually was the tonnage at the end of 1951.

Note: As the draft of the IVth Plan had not been finalised at the time of going to press there is no reference to IVth Plan.

Expansion of the Mercantile Marine :

On 1-4-1967, the merchant fleet of India consisted of 236 ships of 18,79,350 GRT. The changes that have taken place since then upto 29-2-1968 are indicated below :

	COASTAL		OVERSEAS		TOTAL	
	Ships	GRT	Ships	GRT	Ships	GRT
As on 1st April 1967	97	357,558	139	1,521,792	236	1,879,350
Acquisition	+ 3	+26,165	+ 6	+60,123	+ 9	+86,288
Scrappings	- 8	-38,529	- 3	-19,686	-11	-58,215
Transfer from coastal to overseas	- 2	- 2,875	+ 2	+ 2,875	—	—
As on 29th February 1968	90	342,319	144	1,565,104	234	1,907,423
March 1, 1968	—	—	144	15,65,104	—	—
March 1, 1969	—	—	165	17,88,984	—	—

Although there was a gross acquisition of 86,288 GRT, this was largely offset by the heavy scrappings (particularly in the coastal sector), thus making a net addition of only 28,073 GRT in 11 months. However, during the same period, firm orders for 20 ships of about 4.07 lakh GRT were placed and including the previous orders, there are now 42 ships of over 6.5 lakh GRT under construction or on order, to be delivered during the next 2-3 years.

The quantity of cargo carried by Indian ships in India's overseas trade increased from 5.5 million tonnes in 1965-66 to 6.2 million tonnes in 1966-67, but since the total volume of the trade had also gone up from 42.9 million tonnes to 47.1 million tonnes, the percentage of the cargo carried by Indian ships registered only a small increase viz. from 12.9 per cent to 13.2 per cent.

A significant step taken during the Second Plan period was the establishment of a non-lapsing shipping development fund for grant of loans to shipping companies for the acquisition of tonnage.

A sum of Rs. 46.90 crores for purchase of ships aggregating 3.66 lakh GRT has been given by the Shipping Development Fund Committee since April 1966.

The committee, set up in 1958, administers the non-lapsable Shipping Development Fund. The loans, advanced on liberal terms carry a 3 per cent interest and cover 90 per cent of the cost of new ships and 75 per cent of the price of second hand ships.

The loans advanced by the fund since its inception — Rs. 149.67 crores — have helped Indian shipping to augment its tonnage by 12.91 lakh GRT, half the country's total GRT. During the Second Plan, Rs. 12.16 crores were given from the fund for purchase of ships amounting to 1.10 lakh GRT and Rs. 90.61 crores during the Third Plan for adding 8.15 lakh GRT.

The loans sanctioned recently include loans for the purchase of three oil-ore carriers of 45,000 GRT each and two bulk carriers of 28,000 GRT each. The ships are under construction in Yugoslavia. Six cargo liners of 9,000 GRT are being built in the Hindustan Shipyard.

The 10 year old Shipping Development Fund's contribution to the growth of shipping tonnage works out to over one lakh GRT a year on an average.

Shipping Development Fund Committee : During the year 1967-68, the Shipping Development Fund Committee sanctioned 19 loans amounting to Rs. 50.77 crores for the purchase of 36 ships aggregating about 5.03 lakh GRT. Out of these, seven loans of Rs. 11.98 crores for the purchase of 18 ships totalling about 1.68 lakh GRT are subject to the approval of Government.

Another significant step taken in the field of shipping was the establishment of a Shipping Co-ordination Committee in the Department of Transport. The Committee is intended to bring about better liaison between various Ministries of the Government of India and other Government organisations which have cargoes requiring transport, on the one hand, and the Indian shipping companies, on the other, so as to ensure the maximum utilisation of the available Indian tonnage.

The Government of India has agreed to permit the acquisition of second-hand tonnage on deferred payment terms which involve not more than 20 per cent down payment, with the balance of the price spread over a period of 5 years. The Government has also agreed to consider orders for building new ships provided the payment of price is spread over a period of 7 years after delivery, with a small initial cash payment.

An All-India Shipping Council has been constituted for discussing and negotiating freight and shipping problems with conferences and shipping companies.

The Union Government set up a 17-member standing committee for ship-building, ship repairs, and ship ancillaries in June 1968.

Shipbuilding and repairing in India continued at a normal level during 1967. The pace of acquisition of new tonnage has been reduced but large-scale plans for development have been announced and credit has been negotiated for the supply of new tonnage from Poland, Yugoslavia and the United Kingdom. This, together with ship-owners' own schemes, will increase India's tonnage to 4.5 million, the declared object being to increase India's share in overseas trade at present 13 per cent, to 50 per cent.

Work has begun on a new drydock at Visakhapatnam to accommodate ships of up to 60,000 tons deadweight and an announcement has been made that the proposed Cochin shipyard will be developed and completed by 1971. Plans have also been announced for substantial expansion of Mazagon Dock, Bombay, and Garden Reach Workshops, Calcutta, to allow for the construction of medium sized ships.

During the year Hindustan Shipyard delivered two cargo ships of 9,300 tons gross each. (Sources: Lloyd's Register).

SHIPPING ACT

The Merchant Shipping Act 1958 provides for the establishment of a National Shipping Board and a Shipping Development Fund. It also provides for the safety and the efficiency of the merchant marine and the welfare of seamen and passengers. An important provision is about the definition of an Indian ship.

There is a National Welfare Board for Seafarers to advise Government on welfare problems.

Shipping Board

The National Shipping Board under the chairmanship of Shri Narendra Singh Mahida, M.P. has recommended the setting up of an Indian Institute of Shipping for imparting training to Indians on the commercial aspects of shipping. The recommendation has been accepted by the Government in principle. Details have still to be worked out.

MERCHANT NAVY TRAINING

The Government of India have set up six training establishments for the training of merchant navy officers and ratings. The Training Ship 'Dufferin' provides pre-sea training course of two years for navigating cadets. The Directorate of Marine Engineering Training provides a four years' course for engineering cadets. The present intake is 100 cadets per annum. But efforts are being made to increase it to 150. The Lal Bahadur Shastri Nautical and Engineering College provides post-sea instructional courses for both navigating and engineering cadets and apprentices who are preparing for Ministry of Transport certificate of Competency Examinations. There is no limitation as to the intake of this institution. The Training Ship 'Bhadra', 'Mekhala' and 'Nau Lakshi' are ratings training establishments. These institutions provide a three months' course for deck, engine and saloon ratings. The combined monthly intake of these institutions is 113 at the moment. The annual expenditure on the running of all the six establishments is Rs. 36 lakhs approximately.

Merchant Navy Training Board

The Merchant Navy Training Board advises the Government on all matters pertaining to the training of Merchant Navy Personnel. The Board is reconstituted every two years. The Transport Minister is the President, the D.G. of Shipping is the Chairman and the Deputy D.G. is the Vice-Chairman.

On the recommendation of the Board a High Level Technical Committee has been set up, to review the present system of training and examination of Merchant Navy Officers in the light of recent technological developments in the field of Navigation and Marine Engineering. The Committee is expected to submit its report shortly.

During 1967-68, 80 Navigating Officers, 95 Marine Engineer Cadets and 904 Ratings were trained by the T.S. Dufferin, Bombay, D.M.E.T., Calcutta and the three Ratings Training Establishments at Calcutta, Visakhapatnam and Nav Lakhi respectively. 665 candidates took advantage of the training facilities at the Lal Bahadur Shastri Nautical and Engineering College, Bombay, during the year 1967.

In order to make the training scheme for ratings more comprehensive, the syllabus has been revised and the training period also extended from 3 to 4 months with effect from 1st April 1967. The maximum age limit has been reduced from 25 to 22 while the minimum qualifications have been raised from IV standard to VI standard.

Arrangements have been finalised for the registration of a Trust for the award of 8 Loans Scholarships of Rs. 100 each per month to the poor and deserving cadets of the T.S. 'Dufferin' and the 'Directorate of Marine Engineering Training.' The Trust will be financed by contributions from Shipping Companies.

Sailing Vessels

The Sailing Vessels Committee emphasised that if the industry were to survive, the owners of sailing vessels should be encouraged to mechanise their vessels. Government have, therefore, approved a scheme for the grant

of loans for this purpose. Under the scheme, loans are being granted for mechanisation of sailing vessels of 100 tons and over upto a maximum of 75 per cent of the cost of auxiliary machinery, provided the vessels in question are considered seaworthy and suitable for installation of machinery.

The Government of India signed an agreement with the Mitsubishi Heavy Industries, Japan in June 1964 for the construction of India's Second Shipyard at Cochin. The shipyard will comprise among other things a dock of 30,000 deadweight tons and a shipway of 15,000 deadweight tons.

Maritime Freights Commission

A high level Commission known as the Maritime Freights Commission is in existence since 1962 to advise Government on matters relating to freight rates. During the year 1967-68, the question of general increase in coastal freight rates was referred to the Commission and on their recommendation a 10 per cent general increase was allowed with effect from 1st July 1967. Subsequently, due to increase in bunker prices on account of Suez Canal crisis, the Coastal Shipping companies requested for permission to levy a surcharge of Re. 1 per tonne on all cargoes. This was also referred to the Commission and on their recommendation the companies were allowed to levy the surcharge with effect from 15th November 1967.

Freight Investigation Bureau

The Freight Investigation Bureau continued to render assistance to shippers and shipping lines in sorting out space and freight problems. To meet the spot requirements of the shippers in the Southern region, a Branch Office of the Bureau was opened in Madras in December, 1967.

As a result of a study carried out by the F.I.B. it came to light that the shipping documents of various Conferences at present provide for arbitration of disputes outside India according to foreign laws. The Bureau accordingly took up the matter with the Indian Council of Arbitration and the latter has now set up a Marine Panel of Arbitration. The Bureau is now directing its efforts towards making the shipping lines introduce suitable clause in the shipping documents to permit arbitration of shipping disputes relating to exports from India to be conducted in India according to the Indian Arbitration Law.

The work of the Freight Investigation Bureau, had a restraining effect on the Conferences and a number of non-traditional items was accorded special treatment. The Bureau was also instrumental in obtaining adjustments in rates in about 500 cases during 1967-68, assisting a number of new items of export like railway wagons, concrete mixers, motor vehicles, asbestos pipes to get a footing in traditional and new markets.

The Government of India has protested against the quanta of the surcharges, levied by various Conference lines, which are considered too high, irrational and arbitrary.

The shippers and the Government of India have also opposed the 10 per cent increase in the freight rates decided on by the India-U.S. Atlantic Conference Lines. If, on top of the surcharge, the freight increase should also take effect, it would mean a huge additional burden for cargoes moving on this route.

SHIP-BUILDING

(See 'Hindustan Shipyard', 'Mazagon Docks Ltd.', and 'Garden Reach Workshop Ltd.' under Government Industrial Undertakings.)

SPICES

INDIA has been, from ancient times, regarded as the home of spices. Spices play a very important part in the dietary of the people. The crops that produce the major spices are pepper, ginger, cardamom, turmeric and chillies, the minor spices being coriander, cumin, celery, fennel, fenugreek, clove, nutmeg, cinnamon, vanilla, etc.

Indian spices are of the finest quality and today the demand for them has considerably increased in all countries. After meeting the internal requirements, substantial quantities of these spices are exported to foreign countries, to earn the much needed foreign exchange to our country.

PEPPER

More than 90 per cent of the pepper cultivation in India is concentrated in Kerala, the rest being shared by Mysore, Tamil Nadu and Pondicherry. During 1967-68, India had 102,260 hectares under pepper cultivation with a total production of 22,700 tonnes. The state-wise break-up is given below :—

State	Area (‘000 hectares)	Production (‘000 tonnes)
Kerala	99.70	21.06
Mysore	2.31	1.58
Tamil Nadu	0.22	0.05
Pondicherry	0.03	0.01
Total	102.26	22.70

Export of pepper, which is the most important dollar earning spice, was 24,824 tonnes worth Rs. 12.98 crores during 1967-68.

GINGER

India is the largest producer of ginger in the world. During 1966-67 the country had 21,430 hectares under Ginger and production was 20,950 tonnes with the following state-wise break-up.

State	Area (‘000 hectares)	Production (‘000 tonnes)
Kerala	11.79	11.05
Himachal Pradesh	1.59	0.96
Orissa	1.43	1.75
Andhra Pradesh	0.70	0.40
Mysore	1.42	1.64
West Bengal	1.62	2.85
Madhya Pradesh	1.04	0.82
Others	1.84	1.48
Total	21.43	20.95

By exporting 3,915 tonnes of ginger, India earned foreign exchange worth Rs. 1,30,76,000 during 1967-68.

CHILLIES

The area under chillies in India during 1966-67 was estimated at 673,600 hectares and the total production at 402,900 tonnes. The cultivation of this crop is scattered over almost all the states. The major chilli growing states are Maharashtra, Andhra Pradesh, Mysore, Tamil Nadu and Madhya Pradesh. The state-wise division of area and production are shown in the following table.

State	Area (‘000 hectares)	Production (‘000 tonnes)
Andhra Pradesh	146.7	86.7
Madhya Pradesh	40.1	7.5
Tamil Nadu	70.2	94.0
Maharashtra	170.2	90.9
Mysore	95.3	25.0
Bihar	23.6	19.0
Others	127.5	79.8
Total	673.6	402.9

Through exports of 7,226 tonnes of chillies the country earned foreign exchange worth Rs. 2,09,87,000 during 1967-68.

TURMERIC

The production of turmeric in India during 1967-68 was 118,200 tonnes from an area of about 55,800 hectares. The major turmeric growing States in India are Maharashtra, Andhra Pradesh, Bihar, Tamil Nadu, Orissa and Kerala. The state-wise distribution of turmeric cultivation is given in the table below :

State	Area (‘000 hectares)	Production (‘000 tonnes)
Andhra Pradesh	14.0	37.7
Bihar	6.0	6.9
Kerala	4.4	3.7
Tamil Nadu	6.6	23.8
Maharashtra	9.8	16.6
Orissa	7.0	19.6
Others	8.0	9.9
Total	55.8	118.2

The exports of turmeric fetched Rs. 1,37,95,000 during 1967-68, the quantity exported being 5,976 tonnes.

TREE SPICES

India is in deficit in respect of tree spices viz. clove, nutmeg and cinnamon and to supplement the internal demand, imports are being made. During 1967-68, 942 tonnes of clove valued at Rs. 52,86,000, 53 tonnes of nutmeg valued at Rs. 6,24,000 and 13 tonnes of cinnamon valued at Rs. 95,000 were imported into the country.

DEVELOPMENT

Adoption of intensive cultivation practices such as proper manuring, plant protection, irrigation etc., increase in area wherever considered necessary and adoption of high yielding improved varieties of seed materials wherever available are some of the measures proposed. Large scale multiplication and distribution of the new hybrid pepper ‘Panniyur—I’ which gives about four times the yield of the best local variety is one of the important measures already adopted. It is proposed to achieve an additional production of 19,000 tonnes of pepper, 5,000 tonnes of Ginger and 15,000 tonnes of turmeric by the end of the Fourth Five Year Plan period. A total annual production of 20,000 seedlings of clove and 10,000 seedlings each of nutmeg and cinnamon has been targetted for distribution to growers during the Fourth Plan period.

A programme for production of nutmeg grafts which are early bearers has also been envisaged during the Fourth Plan period.

MARKETING

Since some of the major spices viz. pepper, ginger, turmeric and chillies offer good scope for marketing on co-operative lines, the National Co-operative Development Corporation provides financial assistance in the form of managerial subsidy in collaboration with the concerned State Governments, to such of those selected societies in the important regions of production. As a result of the efforts made by the Regional Office, Areca-nut & Spices Development, proposals have been under implementation with financial assistance from the National Cooperative Development Corporation and the concerned State Governments for intensifying the co-operative marketing of spice crops, particularly in Kerala State which is the predominant producer of some of the major spices.

The following will indicate the quantities of these commodities co-operatively handled during the year 1966-67.

		Quantity	Value
Pepper ..	..	9,840 quintals	Rs. 35.33 lakhs
Ginger ..	..	1,061 "	Rs. 2.86 "
Chillies ..	..	6,310 "	Rs. 18.05 "
Turmeric ..	..	6,059 "	Rs. 8.52 "

PUBLICITY

Leaflets on turmeric, chillies, coriander, cumin & fennel, based on the latest results on research are prepared and distributed among the growers of the crop. Besides, a documentary film on Panniyur—I has been produced and released in English, Malayalam, Kannada and Tamil languages. Panels depicting the techniques of improved agricultural practices including pests and disease control are prepared and explained to the farmers at various exhibitions and fairs.

SUGAR INDUSTRY

THE Sugar Industry in India is the second largest Industry in the public sector, next only to textiles. The total capital employed in the industry is over Rs. 300 crores and the value of its production about Rs. 350 crores. It contributes about Rs. 124 crores to the Central and State Exchequers by way of excise duty, cane cess etc. The industry employs over 2.25 lakh workers who receive about Rs. 39 crores annually by way of salaries. Besides, it sustains about 20 million agriculturists who annually receive about Rs. 200 crores.

PRODUCTION IN THE PLAN PERIOD

The Sugar Industry produced in 1955-56 the last year

of the First Five-Year Plan, about 18.9 lakh tonnes of sugar, in 1960-61 the last year of the Second Plan, 30.3 lakh tonnes and in 1965-66 the last year of the Third Plan about 35.3 lakh tonnes.

The production of sugar during the first six months of 1968-69 was 26,20,000 tonnes against 20,75,000 tonnes during the corresponding period last year.

SUGARCANE

The following table gives the figures of sugarcane acreage, production of sugarcane, per acre yields of sugarcane and sugar production actually achieved in the season 1961-62 to 1966-67.

Year				Area under sugarcane (acres)	Sugarcane production (tonnes)	Yield of cane per acre (tonnes)	Sugar production (tonnes)
1961-62 ..	..	..	..	59,88,000	9,98,53,000	16.67	27,30,419
1962-63 ..	..	..	..	56,35,000	9,44,66,000	16.76	21,35,183
1963-64 ..	..	..	..	55,77,000	10,49,07,900	18.81	25,62,345
1964-65 ..	..	..	..	63,28,000	11,95,98,000	18.90	32,31,786
1965-66 ..	..	..	..	68,67,000	11,96,42,000	17.42	35,32,259
1966-67 ..	..	..	..	57,53,000	9,27,26,000	15.94	21,50,699

The following are the regionwise figures of sugar production achieved in the 1966-67 (Nov./Oct.) and 1967-68 (Oct./Sept.) seasons respectively in lakh tonnes :

West Bengal 0.08 ; 0.07 ; Assam 0.06 ; 0.04 ; Whole Bihar 2.11 ; 1.49 ; Eastern U.P. 2.66 ; 2.39 ; Western U.P. : "A" 0.97 ; 2.04 ; "B" 0.61 ; 0.97 ; "C" 1.78 ; 1.64 ; "D" 1.08 ; 1.11 ; Whole U.P. 7.10 ; 8.15 ; Haryana 0.48 ; 0.54 ; Punjab 0.35 ; 0.27 ; Rajasthan 0.08 ; 0.06 ; Madhya Pradesh 0.08 ; 0.04 ; Orissa 0.09 ; 0.05 ; Maharashtra 6.39 ; 6.21 ; Gujarat 0.42 ; 0.47 ; Andhra Pradesh 1.45 ; 1.89 ; Tamil Nadu 1.73 ; 1.84 ; Mysore 0.88 ; 1.22 ; Kerala 0.09 ; 0.05 ; Pondicherry 0.10 ; 0.09 ; All India 21.49 ; 22.48.

SUGAR EXPORTS

Following the sharp decline in sugar production during the 1966-67 season exports in 1967 had to be limited to only about 2.17 lakh tonnes against about 4.41 lakh tonnes exported in 1966. In 1968 only about 98,000

tonnes of sugar was exported to meet the preferential quota of U.S.A. and U.K. The countrywise break-up of sugar exports during the years 1966 to 1968 is given below :—

(metric tonnes)			
Country	1966	1967	1968
U.S.A. ..	65,442.149	66,273.105	73,327.746
Japan ..	—	—	—
U.K. ..	98,627.845	78,364.568	25,400.677
South Viet Nam ..	19,370.514	—	—
Malaysia and Singapore	99,213.949	—	—
Hongkong ..	10,139.689	—	—
Italy ..	—	—	—
Canada ..	51,073.778	71,930.082	—
Korea ..	—	—	—
Persian Gulf	—	—	—

(metric tonnes)

Country	1966	1967	1968
Viet Nam ..	—	—	—
Zambia ..	10,307·727	—	—
Iran ..	40,557·428	—	—
Lebanon ..	10,091·000	—	—
Iraq ..	15,402·161	—	—
France ..	20,898·446	—	—
West Samoa	62·895	—	—
	441,187·581	216,567·755	98,728·423*

* Includes about 3,000 tonnes exported against the quota for 1968-69.

Towards the end of 1968, a new International Sugar Agreement has been negotiated. Under this India has been allotted an export quota of 3·5 lakh tonnes.

PROSPECTS FOR THE 1968-69 SEASON

The Government have continued their policy of partial decontrol for the season 1968-69 as well with some modifications. The percentage of production to be acquired by the Government under levy has been raised to 70 per cent against 60 per cent fixed for the last season 1967-68. This means that the factories can sell only about 30 per cent of their production in the free market while 40 per cent freesale was allowed last year.

The prospects for sugar production in the 1968-69 season are quite bright. The cane acreage in factory areas in the 1968-69 season is higher by about 33 per cent as compared to the last year and expectations are that the total sugar production in the season may be around 30 lakh tonnes. This output if achieved would surely reflect a substantial improvement over the last two seasons 1966-67 and 1967-68.

By March 15, 1969 sugar production during the 1968-69 season had reached a total of 22·78 lakh tonnes, 30,000 tonnes more than the total production of sugar during 1967-68.

As of March 22, 1969, 189 factories were in operation. A majority of these was expected to continue to work till the end of April and a substantial number till the end of May.

COOPERATIVE SECTOR

National Federation of Cooperative Sugar Factories Ltd.

34 (2nd Floor) South Patel Nagar,
New Delhi 8.

The National Federation was set up in December 1960 with the object of coordinating and facilitating the working of cooperative sugar factories, State and Zonal Federations and to assist in the promotion of organisation of new cooperative sugar factories.

There are 79 cooperative sugar factories licensed so far, out of which 58 were in operation up to 1967-68. Others are in various stages of formation and four of these are expected to go into production in 1968-69.

Cooperative sugar factories produced in 1967-68, 6·83 lakh tonnes sugar which is 32 per cent of the total production in the country. During 1967-68 the cooperative sugar factories continued to manufacture raw sugar and 20 factories produced 0·69 lakh tonnes, producing 73 per cent of the total raw sugar produced for export in the country.

The National Federation has undertaken many useful activities during the last eight years of its existence and has made its presence felt. It is recognised by Government as the main spokesman of the cooperative sector in the sugar industry.

President : P. S. Rajagopal Naidu ; *Vice-President* : Dr. D. K. Patel ; *Secretary* : A. L. N. Moorthy.

TEXTILE INDUSTRY

THE cotton textile industry is the largest single industry in the country. India holds the third place among the countries of the world in its capacity for yarn and cloth based on mechanical equipment and stands second on the basis of cotton consumption.

In addition to providing means of livelihood for nearly 10 million handloom weavers, the mill industry provides direct employment to nearly 800,000 workers.

The total number of mills in the country in March 1968 was 636, the number of spindles installed 17·20 million,

The following table gives details about the distribution of mills in India as in March 1968.

State/ Union Territory	No. of mills in existence	Spindles installed	Looms installed	Average No. of workers employed daily in all shifts	Consumption of raw cotton (In bales of 180 Kgs.)
Andhra Pradesh	29	4,59,734	1,269	15,944	14,426
Assam	2	23,040	..	1,035	1,171
Bihar	4	38,624	299	1,472	1,302
Gujarat	113	35,35,852	62,764	1,65,664	96,869
(a) Ahmedabad City	69	24,57,599	46,158	1,25,282	68,042
(b) Rest of Gujarat	44	10,78,253	16,606	40,382	28,827

of looms 2,07,200. The average number of workers employed daily in all shifts was 7,61,837 and the consumption of raw cotton (in bales of 180 kg. each) was 5,15,892.

The paid up capital is estimated at Rs. 190 crores and the annual value of the output amounts to Rs. 800 crores.

FOURTH FIVE-YEAR PLAN

The Planning Commission has decided that the Fourth Five-Year Plan is to start from 1969 and the draft has not been finalised yet.

State/ Union Territory	No. of mills in existence	Spindles installed	Looms installed	Average No. of workers employed daily in all shifts	Consumption of raw cotton (In bales of 180 Kgs.)
Haryana	9	1,91,872	978	9,383	12,522
Jammu & Kashmir	1	12,600	..	..	..
Kerala	23	3,48,751	1,088	9,178	7,632
Madhya Pradesh	22	6,36,222	13,045	45,388	27,804
Maharashtra	95	45,55,089	78,139	2,34,324	1,27,333
(a) Bombay City	59	35,61,512	63,511	1,85,538	99,270
(b) Rest of Maharashtra	36	9,93,577	14,628	48,786	28,063
Mysore	27	6,41,664	5,883	28,821	19,676
Orissa	4	1,00,180	866	5,380	4,435
Punjab	8	1,19,709	1,287	7,498	9,757
Rajasthan	19	3,28,470	2,960	15,159	16,170
Tamil Nadu	199	40,07,058	9,287	97,251	91,727
Uttar Pradesh	31	9,55,402	13,469	51,416	36,304
(a) Kanpur	14	5,31,176	11,311	35,069	18,896
(b) Rest of U.P.	17	4,24,226	2,158	16,347	17,408
West Bengal	41	9,33,754	9,944	46,285	27,519
Delhi	4	1,89,772	3,756	19,707	14,168
Pondicherry	5	1,21,608	2,236	7,932	7,077
TOTAL	636	1,71,99,401	2,07,200	7,61,837	5,15,892

PRODUCTION

The actual production of yarn and cloth by the mills sector is as follows:—

Year	Yarn in '000 kg.	Cloth in '000 metres					
		Coarse	Medium B	Medium A	Fine	Superfine	Total
1964	9,64,819	8,68,474	14,75,272	18,07,974	1,95,035	3,06,754	46,53,509
1965	9,39,236	8,02,623	14,04,025	18,40,351	2,19,540	3,20,927	45,87,466
1966	9,00,980	7,19,592	11,30,587	18,61,860	2,08,867	3,17,977	42,38,883
1967	8,96,417	6,82,844	11,44,077	17,68,139	1,70,198	3,32,278	40,97,536

The total production of mill-made cloth in January-December 1967, touched 4,098 million metres showing a shortfall of 141 million metres over the output of 4,239 million metres in the last year.

The total production of yarn in the year 1967 was 896 million kgs. compared to 901 million kgs. in the year 1966.

The total production of cotton cloth by all the sectors in India during 1967 was about 7,276 million metres. Of this, the mill sector accounted for 4,098 million metres and the decentralised sector for 3,178 million metres.

The exports of cotton textiles produced by the mills in 1967 work out to 410 million metres fetching foreign exchange to the extent of 5,937 lakhs of rupees.

In the production of mill-made cloth, Maharashtra leads other States. Maharashtra accounted for about 1,355 million metres in 1967 out of a total output of 4,098 million metres.

The production figures for different States during the year 1967 are as follows:—

(Figures are in million metres):

Andhra Pradesh 31; Bihar 0.1; Gujarat 1,264; Haryana 41; Kerala 19; Madhya Pradesh 361; Maharashtra 1,355; Mysore 77; Orissa 32; Punjab 32; Rajasthan 62; Tamil Nadu 149; Uttar Pradesh 277; West Bengal 207; Delhi 148; Pondicherry 43; Total 4,098.

During 1967, the cotton consumption by mills was 58.00 lakh bales of 180 kgs. each of which, Indian cotton

accounted for 51.36 lakh bales and foreign cotton for 6.64 lakh bales.

Unsold stock of cloth with the mills at the end of 1967 was 177 million metres equivalent to about 9 days' production. The stock shows a fall from the level of 199 million metres at the end of 1966.

Third-Shift Working: The daily average number of spindles worked in each of the 3 shifts during 1964 to 1967 are as shown in the table given below.

(In million)

	1st Shift	2nd Shift	3rd Shift
1964	13.2	13.2	10.1
1965	13.3	13.4	10.0
1966	13.3	13.2	9.9
1967	13.9	14.0	11.1

So far as looms are concerned the shift-wise working is given in the table below:

Daily average number of looms worked in

	1st Shift	2nd Shift	3rd Shift
1964	1,84,025	1,80,834	61,859
1965	1,84,822	1,80,326	61,599
1966	1,81,474	1,76,478	63,396
1967	1,82,008	1,77,753	66,242

COMMITTEE FOR COTTON TEXTILE INDUSTRY*

The Government of Maharashtra has appointed a Committee under the chairmanship of Mr. S. V. Kogekar, in October 1967 to make a comprehensive enquiry into the present situation of the Cotton Textile Industry in the State.

The terms of reference of the Committee are: (i) To examine fully the present situation of the Cotton Textile Industry in the State in all its aspects; and (ii) To make a report to the Government on: (a) Reasons for its present state; and (b) Measures to be taken to put it on an even keel.

The work of the Committee is over and its report has been submitted to the State Government.

N.I.D.C.'s WORKING GROUP FOR THE COTTON TEXTILE INDUSTRY

Several important proposals of the National Industrial Development Corporation's Working Group for the cotton textile industry, including the one calling for a "minimum level of modernisation of the industry," had been accepted by the Government, according to a resolution presented to Parliament on March 29, 1961.

The other proposals accepted by the Government included the establishment of five new units for the production of quality cloth for export, the setting up of a suitable machinery to help resolve problems of rationalisation and compulsory scrapping of units where "rehabilitation is not worth-while."

The Working Group was headed by the then Textile Commissioner, Mr. D. S. Joshi.

The cost of modernisation and rehabilitation in the textile industry in India is estimated to be about Rs. 180 crores according to the Working Group.

CENTRAL WAGE BOARD

The majority recommendations of the second wage board for the cotton textile industry have been accepted by the Union Government.

It has been decided that the wage board's recommendations should remain operative for five years, with effect from January 1, 1969. During this period, there should be

no claim for a revision of matters covered by the recommendations in those establishments which implement these fully.

COTTON

The statistical position of cotton in India during the season 1966-67 is summed up in the following table:—

(In lakh bales)—(Bales of 180 kg.)

Stocks carried over from the previous year (Indian & Foreign) ..	10.85
Actual production	49.31
Total import	7.82
Total consumption:—	
Indian	51.82
Foreign	5.81
Total export	2.45

HANDLOOM CLOTH

(See under "Cottage Industries").

AMBAR CHARKHA

(See under "Cottage Industries").

EXPORTS

The following table gives the sea-borne export trend of all cloth:—

Year	Twist and Yarn		Cloth	
	Million Kgs.	Rs. in crores	Million mts.	Rs. in crores
1964 (Jan. to Dec.) ..	12.37	5.88	502.9	48.86
1965 (Do.) ..	12.76	6.03	506.8	46.76
1966* ..	16.20	8.69	424.33	49.14
1967 (Do.) ..	11.02	7.49	409.56	59.39

* Value is expressed in terms of devalued Rs. from June 1966.

Cotton Textiles Export Promotion Council: The Cotton Textiles Export Promotion Council is an autonomous body incorporated under the Companies Act. The Council is a non-profit making organisation and was set up in 1954 for the promotion of exports of mill-made cotton yarn and piece-goods, cotton manufactures and all hosiery and ready-made garments.

RATES OF EXCISE DUTY ON COTTON FABRICS WITH EFFECT FROM 2nd MAY 1968.

(In paise per Sq. Metre).

	Basic		Addl. Excise Duty	Handloom Cess	Compounded Duty	Special Ex. Duty	Total	
	For non-controlled cloth	For controlled cloth					Non-controlled cloth	Controlled cloth
1. SUPERFINE								
(a) Grey	7.0	7.0	15.5	1.9	22.0	Nil	46.4	46.4
(b) Bld., Dyd., & Ptd. ..	22.0	22.0	15.5	1.9	22.0	Nil	61.4	61.4
(c) Mercerized	42.0	42.0	15.5	1.9	22.0	Nil	81.4	81.4
(d) Shrink-proofed	57.0	57.0	15.5	1.9	22.0	Nil	96.4	96.4
2. FINE								
(a) Grey	6.0	6.0	9.6	1.9	14.0	Nil	31.5	31.5
(b) Bld., Dyd., & Ptd. ..	21.0	21.0	9.6	1.9	14.0	Nil	46.5	46.5
(c) Mercerized	41.0	41.0	9.6	1.9	14.0	Nil	66.5	66.5
(d) Shrink-proofed	56.0	56.0	9.6	1.9	14.0	Nil	81.5	81.5

* The Government has taken important decisions on the recommendations of the Committee.

RATES OF EXCISE DUTY ON COTTON FABRICS WITH EFFECT FROM 2nd MAY 1968. (Contd.)
(In paise per Sq. Metre).

	Basic		Addl. Excise Duty	Hand- loom Cess	Com- pounded Duty	Special Ex. Duty	Total	
	For non- controlled cloth	For controlled cloth					Non- controlled cloth	Control- led cloth
3. MEDIUM — 'A'								
(a) Grey	2.5	2.5	4.8	1.9	6.6	Nil	15.8	15.8
(b) Bld., Dyd., & Ptd. ..	10.0	10.0	4.8	1.9	6.6	Nil	23.3	23.3
(c) Mercerized	27.5	27.5	4.8	1.9	6.6	Nil	40.8	40.8
(d) Shrink-proofed	42.5	42.5	4.8	1.9	6.6	Nil	55.8	55.8
4. MEDIUM — 'B'								
(a) Grey	1.5	0.0	4.8	1.9	4.4	Nil	12.6	11.1
(b) Bld., Dyd., & Ptd. ..	6.5	0.0	4.8	1.9	4.4	Nil	17.6	11.1
(c) Mercerized	16.5	0.0	4.8	1.9	4.4	Nil	27.6	11.1
(d) Shrink-proofed	31.5	0.0	4.8	1.9	4.4	Nil	42.6	11.1
5. COARSE								
(a) Grey	1.0	0.0	3.6	1.9	2.2	Nil	8.7	7.7
(b) Bld., Dyd., & Ptd. ..	6.0	0.0	3.6	1.9	2.2	Nil	13.7	7.7
(c) Mercerized	16.0	0.0	3.6	1.9	2.2	Nil	23.7	7.7
(d) Shrink-proofed	31.0	0.0	3.6	1.9	2.2	Nil	38.7	7.7

RATE FOR COTTON FENTS IN PAISE PER KILOGRAM WITH EFFECT FROM 1st MARCH 1968

Superfine	66.1	—	22.6	—	120.0	Nil	208.1	—
Fine	66.1	—	22.0	—	90.0	Nil	178.1	—
Medium — 'A' }	11.0	—	4.4	—	44.0	Nil	59.4	—
Medium — 'B' }	11.0	—	4.4	—	16.5	Nil	31.9	—
Coarse	11.0	—	4.4	—	16.5	Nil	31.9	—

RATES OF PROCESSING SURCHARGES ON COTTON FABRICS WITH EFFECT FROM 2nd MAY 1968.

			DUTY PAYABLE			
S. No.	Variety of fabrics on entry into the factory.	Variety of fabrics at the time of clearance from the factory on payment of duty.	Category A		Category B	
			In case of fabrics made from grey fabrics which have not been manufactured in a composite mill and which have already paid duty or are exempted from duty when processed by independent processor.		Others not falling under 'A' Note: This category includes independent processors' processing cloth manufactured by composite mills and composite mills processing Powerloom, Handloom and Mill-made cloth.	
			Handloom fabrics	Other than handloom fabrics	Handloom fabrics	Other than handloom fabrics
<i>Cotton fabrics</i>			——— Paise per square metre ———			
1. (a)	Grey (Superfine or fine)	Bleached or/and dyed or/and printed	8.0	14.0	10.0	15.0
	(b) Grey (Medium-A)	—do.—	5.5	6.5	7.5	7.5
	(c) Grey (Medium-B or Coarse)	—do.—	1.5	2.0	5.0	5.0
2. (a)	Grey (Superfine or fine)	Mercerized or and water-proofed, whether rot proofed or not (including rubberized)	24.0	32.0	30.0	35.0
	(b) Grey (Medium-A)	—do.—	19.0	22.0	25.0	25.0
	(c) Grey (Medium-B or Coarse)	—do.—	4.5	6.0	15.0	15.0

**RATES OF PROCESSING SURCHARGES ON COTTON FABRICS WITH EFFECT FROM
2nd MAY 1968—(Contd.)**

DUTY PAYABLE						
S No.	Variety of fabrics on entry into the factory.	Variety of fabrics at the time of clearance from the factory on payment of duty.	Category A		Category B	
			In case of fabrics made from grey fabrics which have not been manufactured in a composite mill and which have already paid duty or are exempted from duty when processed by independent processor.		Others not falling under 'A'. Note : This category includes independent processors processing cloth manufactured by composite mills and composite mills processing Powerloom, Handloom and Mill-made cloth.	
			Handloom fabrics	Other than handloom fabrics	Handloom fabrics	Other than handloom fabrics
			—————Paise per square metre—————			
Cotton fabrics						
3. (a)	Grey (Superfine or fine)	Processed in any other manner including shrink proofed and/or organdie processed.	36·0	45·5	45·0	50·0
	(b) Grey (Medium-A)	—do.—	31·0	35·5	40·0	40·0
	(c) Grey (Medium - B or Coarse)	—do.—	9·0	12·0	30·0	30·0
4. (a)	Bleached or/and dyed or/and printed (Superfine or Fine)	Mercerized or/and water-proofed, whether rot-proofed or not (including rubberized)	16·0	18·0	20·0	20·0
	(b) Bleached or/and dyed or/and printed (Medium-A)	—do.—	13·5	15·5	17·5	17·5
	(c) Bleached or/and dyed or/and printed (Medium-B or Coarse)	—do.—	3·0	4·0	10·0	10·0
5. (a)	Bleached or/and dyed or/and printed (Superfine or Fine)	Processed in any other manner including shrink proofed and/or organdie processed.	28·0	31·5	35·0	35·0
	(b) Bleached or/and dyed or/and printed (Medium-A)	—do.—	25·5	29·0	32·5	32·5
	(c) Bleached or/and dyed or/and printed (Medium-B or Coarse)	—do.—	7·5	10·0	25·0	25·0
6. (a)	Mercerized or/and water-proofed, whether rot-proofed or not (including rubberized) (Superfine, Fine or Medium-A)	Processed in any other manner including shrink proofed and/or organdie processed.	12·0	13·5	15·0	15·0
	(b) Mercerized or/and water-proofed, whether rot-proofed, or not (including rubberized) (Medium-B or Coarse)	—do.—	4·5	6·0	15·0	15·0
7.	Processed in any other manner including shrink proofed and/or organdie processed.	Processed in any other manner including shrink proofed and/or organdie processed.	—————N I L—————			

TOBACCO INDUSTRY*

INDIA is the third most important tobacco producing country next to U.S.A. and China and accounts for 8 per cent of the total world tobacco production. She is also the fifth biggest exporter of tobacco in the world.

It is estimated that about 9 lakhs of tobacco growers and about 6 lakhs of curers are engaged in the tobacco industry, besides several lakhs employed in grading, marketing and manufacturing. About 35 lakh people are connected with the tobacco industry in the country—from the stage of production of tobacco to the marketing of the manufactured products. There are 11 manufacturers in the country producing 83 different brands, 15 of them filter-tipped. The annual value of the tobacco crop in the country at present is estimated to be about 75 to 80 crores of rupees. During 1967-68 it fetched to the national exchequer a revenue of Rs. 153.7 crores by way of Central Excise Duty and earned about Rs. 35.6 crores of foreign exchange.

India produces several types of tobacco which fall under two botanical species namely *N. tabacum* and *N. rustica*, and are used for different purposes such as in the manufacture of cigarettes and bidis, and for chewing, hookah, snuff, etc. The total area under tobacco during 1966-67 was 398.2 thousand hectares and the total production was 350 million kg. The estimated production of tobacco in million kg. under different types during 1966-67 is given below :

Virginia Tobacco 90.7 ; Bidi Tobacco 90 ; Snuff Tobacco 5.0 ; Cigar and Cheroot Tobacco 22.0 ; Hookah Tobacco 33.0 ; Chewing Tobacco 61.0 ; Others including Natu, Burley etc. 48.3.

Andhra Pradesh, Gujarat, Mysore, Tamil Nadu, Maharashtra, Uttar Pradesh, Bihar and West Bengal are the important tobacco growing States in the country.

Statewise figures of tobacco production (in million Kg.) for 1966-67 are as follows: Andhra Pradesh 170.8 ; Gujarat 74.9 ; Tamil Nadu 23.5 ; Mysore 15.3 ; West Bengal 13.9 ; Bihar 11.9 ; Uttar Pradesh 9.9 ; Maharashtra 8.1 ; Others 21.7 ; Total 350.

Source :—Directorate of Economics and Statistics Ministry of Food, Agriculture, Community Development and Cooperation, New Delhi.

Research programmes on tobacco are implemented by the Indian Council of Agricultural Research. The Central Tobacco Research Institute at Rajahmundry (Andhra Pradesh) has been set up mainly to investigate the fundamental problems connected with various aspects of tobacco including agricultural production and commercial utilisation. The institute also coordinates the work of other tobacco experimental farms spread all over the country. The regional research stations attached to the Institute in various States are carrying out research work on the improvement in the yield and quality of different types of tobacco grown in the concerned regions. The research work on bidi tobacco is specially undertaken at the Institute of Agriculture, Anand (Gujarat) and the Tobacco Research Station, Nipani (Mysore). Besides, the Indian Council of Agricultural Research also finances several other schemes in the important tobacco growing States in the country.

The Regional Office, Tobacco Development in the Ministry of Food, Agriculture, Community Development and Cooperation (Department of Agriculture), Government of India with its Headquarters in Madras looks after the development and marketing activities of tobacco. All the

schemes on tobacco development, marketing, economics etc. and the centrally sponsored schemes for development of exportable types of tobacco in the established and new areas are being financed by the Government of India through this Regional Office.

The Government of India, consequent on the dissolution of the Indian Central Tobacco Committee have constituted the Indian Tobacco Development Council. The Council is having official representatives from State and Central Governments, representatives of tobacco growers, traders, industry, Members of Parliament etc. This Council is an advisory body and will (1) consider from time to time the tobacco development programmes formulated by the Central and State Governments (2) consider and review the progress of tobacco development in the content of targets laid down (3) consider and review the problems of tobacco marketing and trade, including price policy and to make suggestion for improvement etc. and (4) attend to any other functions which may from time to time be assigned by the Government of India.

A well organised extension service operates in the tobacco growing areas under the control of Agricultural Departments of the State Governments for educating and training the farmers in the improved methods of harvesting, handling and curing of tobacco.

The bulk of India's exports consists of the V.F.C. Variety, of which she is the world's third biggest exporter. Other tobaccos exported from India include Sun Cured country, Virginia Sun Cured, Bidi, Chewing and Hookah. Variety-wise exports of unmanufactured tobacco (in million kg.) from India during 1967-68 are as follows :—

Virginia Flue cured 46.7 ; Virginia Sun-cured 0.8 ; Sun-Cured country 1.9 ; Chewing 3.6 ; Hookah 0.2 ; Bidi 0.1 ; Others 2.1 ; Total 55.4.

Source :—Monthly Statistics of the Foreign Trade of India.

Indian tobacco, mostly unmanufactured is exported to over 60 countries. Among them United Kingdom continues to be the chief market. United Arab Republic, U.S.S.R., Aden, Japan, East Germany, Hungary, Nepal, Belgium, Netherlands, are the other important countries importing Indian tobacco. Exports of new tobacco (in million Kg.) during 1967-68 to major destinations are as follows: U.K. 24.5 ; U.A.R. 6.6 ; U.S.S.R. 4.8 ; Aden 3.6 ; Japan 2.8 ; East Germany 2.0 ; Hungary 1.9 ; Nepal 1.7 ; Belgium 1.3 ; Netherlands 0.9 ; Others 5.3 ; Total (including others) Rs. 55.5 (Value Rs. 34.8 crores).

Source :—Department of Commercial Intelligence and Statistics, Calcutta.

A little over half a million Kg. of unmanufactured tobacco was imported during 1967-68 for blending in the manufacture of cigarettes and for the use of cigar industry. Imports of tobacco products are negligible.

The Government of India set up the Tobacco Export Promotion Council to sustain and promote exports of Indian Tobacco and tobacco manufactures. The main objective is to support, protect, maintain and promote exports of unmanufactured and manufactured tobacco. The Council undertakes market studies in foreign countries and supplies information to Indian exporters on the market situation and trade opportunities abroad through participation in International Exhibitions and Trade Fairs. The Council also sends delegations, study and sales teams to identify the foreign requirements and promote exports by personal contacts.

* Tobacco consumption : Consumption of tobacco in cigarette and bidi manufacture has fallen by 13,260 tonnes in 1968. The figures for 1966, 1967 and 1968 were 1,43,260 tonnes, 1,38,130 tonnes and 1,24,870 tonnes respectively. In 1968-69, up to November, 1,20,000 kg. of tobacco, worth Rs. 5.53 lakhs, has been imported. The corresponding figures for 1967-68 are 6,30,000 kg. and Rs. 132.82 lakhs.

VEGETABLE OIL INDUSTRY

INDIA is one of the most important producers of oilseeds in the world and is consequently a large producer of vegetable oils as well as an exporter of oils and oilseeds.

The following figures show the average production of different varieties of oilseeds in recent years along with their share in world production :—

			Average Indian Production (lakh tons)	As percent- age of world Production
Groundnut	..	..	43.54	34
Castor seed	..	..	0.98	15
Linseed	..	..	4.10	13
Sesamum	..	..	2.88	34
Rape and mustard	..	..	13.80	12

The following table gives the yield in thousand tonnes — of oilseeds during the seasons 1961-62, 1962-63, 1963-64, 1964-65, 1965-66 and 1966-67.

			1961-62	1962-63*	1963-64*	1964-65*	1965-66*	1966-67(†)
Groundnut	..	..	4,994	4,821	5,215	5,888	4,231	4,485
Castor seed	..	..	109	101	102	108	80	81
Linseed	..	..	463	433	379	503	335	274
Sesamum	..	..	372	464	439	493	425	404
Rapeseed and Mustard	..	..	1,346	1,294	903	1,466	1,276	1,245
Total	..	..	7,284	7,113	7,038	8,458	6,347	6,489

* Partially revised. (†) Final Estimates.

The All-India Final Estimate of Groundnut for 1966-67 has put the area under the groundnut crop at 7,250.7 thousand hectares.

The all-India first estimate of 1967-68 put the area under groundnut crop at 5,744.5 thousand hectares. This shows an increase of 3.9 per cent over the previous estimate.

The increase in the area under groundnut during the year 1966-67 has been mainly in Maharashtra, Uttar Pradesh, Gujarat and Tamil Nadu and is attributed to favourable climatic conditions at the sowing time. This increase in area has, however, been offset to some extent by a small decline reported from Rajasthan and Madhya Pradesh.

ESTIMATED PRODUCTION OF OIL FROM THE FIVE MAJOR OILSEEDS

('000 Tonnes)

			1960-61	1961-62	1962-63	1963-64	1964-65	1965-66
1. Groundnut	..	..	1,091	1,156	1,093	1,190	1,369	910
2. Rape and Mustard	..	..	416	416	399	271	456	391
3. Sesamum	..	..	99	116	143	126	153	127
4. Linseed	..	..	117	138	128	111	150	95
5. Castor	..	..	37	38	35	36	38	25

In March 1956, there were 2,097 oil mills registered under the Factories Act. The total crushing capacity of the mills in the country was estimated at 56 lakh tons per annum in terms of oilseeds.

There were, besides, about four lakh village *ghanis* in the country with an annual crushing capacity of about seven lakh tons of oilseeds. Thus the total crushing capacity was estimated at 63 lakh tons in terms of oilseeds. The total output of oilseeds in recent years has been of the order of 65 to 70 lakhs tons.

The capital invested in the organised industry is esti-

mated at Rs. 24.4 crores and the number of workers at 43,580. The most important oilseeds consumed in large quantities for the production of oils are groundnut, linseed, rape and mustard, castor seed and sesamum seed. Small quantities of cottonseed mohwa, and copra are also crushed.

The Third Plan target for oilseeds was put at 9.8 million tons, as against the Second Plan target of 7.5 million tons and the actual output of 6.53 million tons in 1960-61. The targets of production of oil seeds at the end of the Fourth Plan is put at 11.4 million tonnes.

IMPORTS AND EXPORTS

The following table shows the total value of imports and exports of oil of some varieties :

(Value Rs. lakhs).

			1961-62	1962-63	1963-64	1964-65	1965-66	1966-67*	1967-68**
IMPORTS									
Palm Oil	..	..	451	290	385	344	69	200	14.7
Coconut Oil	..	..	Nil	60	21	3	—	—	—
EXPORTS									
Groundnut Oil	..	..	103	787	1,349	130	1	8	15.5
Linseed Oil	..	..	8	13	8	10	2	1	0.7
Castor Oil	..	..	400	427	481	325	190	8	22.0

* June 1966 to March 1967.

** Post devaluation rates.

On the basis of the minimum *per capita* consumption of fats in this country, the total consumption of fats of the entire population would work out at 7 million tons, as against the present estimated consumption of 1.2 million tons.

The consumption of edible oils and vanaspati was said to have gone up during the Second Plan. Assuming the higher consumption at 8.8 lb. the total requirements of vegetable oils and vanaspati for 400 million people had touched about 1.62 million tons by 1960-61.

PER CAPITA AVAILABILITY OF EDIBLE OILS

(Kgs. per year)

					Groundnut oil	Rape and Mustard oil	Coconut oil	Sesamum oil	Total
1960-61	..	..	..	..	2.44	0.92	0.49	0.22	4.07
1961-62	..	..	..	..	2.60	0.90	0.45	0.26	4.21
1962-63	..	..	..	..	2.34	0.84	0.50	0.31	3.99
1963-64	..	..	..	..	2.40	0.57	0.45	0.29	3.71
1964-65	..	..	..	..	2.87	0.91	0.41	0.31	4.50
1965-66	..	..	..	..	1.94	0.77	0.39	0.25	3.35

The development of soap, paints and varnish industries has stimulated the consumption of non-edible oils. Castor oil consumption as a lubricant has also registered considerable expansion. By 1960-61, the total requirements of vegetable oils for all the industrial and miscellaneous purposes were estimated at 278,000 tons. Thus internal consumption requirements were of the order of only 1.9 million tons.

Pine Oil: The first pine oil factory in the country has been started at Hoshiarpur in the Punjab. It produces pine oil, dipentine and pine tar. This factory is claimed to have resulted in the saving of foreign exchange to the tune of Rs. 30 to 40 lakhs annually.

Palmarosa Oil: India ranks first among nations producing Palmarosa oil, and is the chief supplier of this important raw material for perfumery manufacture, earning foreign exchange worth Rs. 30 lakhs annually by way of its export alone.

To ensure quality control, Government have established a special laboratory at Bombay for AGMARK grading and have banned the export of ungraded Palmarosa oil.

COTTONSEED

Special efforts are being made to develop the cottonseed oil industry on modern lines. From eight units equipped with delinting and dehulling machines in 1955, the number has grown to 20 units in 1965 with an annual installed capacity of 3 lakh metric tons in terms of seeds. The production in 1964 was 25,000 metric tons in terms of extracted oil. Among the steps taken to increase the consumption of cottonseed oil by vanaspati factories is a reduction of excise duty. Export of cottonseed oil as well as decorticated cottonseed oilcake was licensed freely. The policy of not licensing new mills or expansion of existing oil mills has been continued. The services of a T.C.M. expert were made available to the crushing industry to advise the crushers on the production and grading of cottonseed linters.

In regard to solvent extraction of oilcakes, there are at present 32 units, with an annual capacity of 547,500 tons in terms of oilcakes.

The rise in output was due to the commencement of operations by three more units. Considerable foreign exchange is already being earned by this industry by export of deoiled meal to U.K. and other countries. During the year 1960-61, licences for 100 units of a capacity of 20 lakh tons per annum in terms of oilcakes, had been issued.

VANASPATI

The Vanaspati Industry though a minor branch of the Vegetable Oil Industry is one of the most highly organised and efficient industries. Its history is interesting. It started on a small scale in 1930.

In 1959, there were 58 factories with an annual production capacity of about 446,220 tons. Out of these, one is the Government Hydrogenation Factory at Kozhikode having an installed capacity of 3,000 tons per annum. Besides, there are seven factories with an annual rated capacity of 33,000 tons. It is the Government's policy not to permit any further expansion of the industry as the present capacity is adequate to meet all the requirements of 4 lakh tons. However, limited expansion of capacity is being allowed to small and uneconomic units for enabling them to function more economically. Additionally, the setting up of a few units in the cooperative sector is also being considered.

In February 1966 the Government had curbed the production of Vanaspati at 80 per cent of the output in 1965. The control was removed on Sept. 5, 1967, but control on prices of Vanaspati continued. The removal of price control in June 1968 was short-lived and the statutory control was reintroduced on Sept. 6, 1968.

PRODUCTION OF VANASPATI AND RELATED PRODUCTS

('000 tonnes)

	1965	1966	1967
(a) EDIBLE:			
Vanaspati	429.3	358.5	392.9
Refined vegetable oil	42.6	47.0	38.9
Margarine	0.7	0.58	0.9
(b) INDUSTRIAL:			
Industrial hard oil	45.6	45.1	14.7

Installed Capacity, Production and Consumption

('000 tonnes)

	Capacity	Production	Consumption
1960	521	337	337
1961	560	340	337
1962	557	370	363
1963	467	320	—
1964	576	360	—
1965	630	429	—

'—' Not available.

Exports of Hydrogenated Oil

	Quantity (Tonnes)	Value (Rs. lakhs)
1960-61	66	103
1961-62	33	56
1962-63	30	45
1963-64	41	62
1964-65	—	19

The ban on export of vanaspati and refined vegetable oil, as of all other edible vegetable oils, imposed in June

The table below summarises the programme of development in the Second and Third Plans :

	1955-56	1960-61	1960-61 Estimated	1965-66 Target
Installed Capacity	445,000	445,000	434,000	550,000
Production	276,000	330,000	350,000	500,000
Internal Consumption	255,000	375,000	—	—
		to 380,000		
Exports	15,000	20,000	—	—
		to 25,000		

With a view to augmenting supplies of raw oils for the vanaspati industry, imports of 36,20,869 kgs. of soyabean oil from the U.S.A. under P.L. 480 were arranged during the period April 1967 to March 1968. 6,000 tonnes of sunflowerseed oil were received as a free gift from the U.S.S.R. in 1967 and the proceeds thereof were earmarked for the relief of people in the drought-affected areas.

1964 continues, but limited exports of branded vanaspati have nevertheless been permitted as a special case in small instalments so as to minimise dislocation of our normal markets to the extent possible. Thus, only 391 tonnes of vanaspati were exported during 1967 mainly to the Middle Eastern markets, as against the export of 956 tonnes in 1966.

The net capital invested in the industry is about Rs. 22 crores. Besides 10,000 workers directly employed, the industry provides indirect employment for nearly 60,000 workers.

Edible oils constitute the chief raw material of the industry.

Lemongrass Oil : Lemongrass is chiefly grown in Kerala. India exports about Rs. 2 crores worth of lemongrass annually to countries like the U.K., West Germany, U.S.A., Switzerland, Japan and Italy. Lemongrass oil is mainly used for the manufacture of synthetic vitamin 'A' and as a base for some perfumes for the soap-making industry.

WOOLLEN INDUSTRY

THE capital investment in the industry including combing units has been estimated at Rs. 80 crores.

The Indian woollen industry comprises an organised sector and a wide range of decentralised sectors. The latter one represents the traditional handicraft skills in design and execution as a domestic industry and the former one represents the modern sophisticated production techniques and management.

India's 40 million sheep produce annually about 70 million lbs. of raw wool. In terms of productivity, the average yield of sheep in India works out at about 1.9 lbs. as against over 9 lbs. in Australia. Even with the modest improvement in yield, India's raw wool production can be stepped up to 90 million lbs. by 1974. About 50 per cent of the raw wool produced in India is below 40s count and a substantial part of this low quality is exported and the rest is used for the manufacture of coarser apparel and floor covering, etc.

There are combing units and spinning mills. There are composite units, in which all the three processes are carried on. There are small units in the decentralised sector using hosiery machines, powerlooms and handlooms.

In order to make adequate wool tops available from

indigenous sources and save foreign exchange on imports the Indian Government issued licences for establishing wool combing units in the country. The first of such unit, the Wool Combers of India Ltd. established their combing plant in Calcutta under their original name Issac Holdens (India) Ltd. At present there are 10 commissioned wool combing units in the country with a licensed capacity of 38.8 million lbs. besides a few non-commissioned combers who are combing for self consumption. The following is the year-wise production[@] of wool tops in million lbs. in the country since 1961. 1961 : 5.5 ; 1962 : 9.2 ; 1963 : 13.4 ; 1964 : 9.9 ; 1965 : 11.1 ; 1966 : 10.12 ; 1967 : 18.18.

The major concentration is in the northern region of India. There are 95 organised units in the Indian Woollen industry. Of these, 13 are under public limited organisation, 17 are under private limited organisation, 44 are organised on partnership basis, 15 are under proprietorship basis, 5 units are in the State Government sector and one unit in the co-operative sector. Of the 95 units, 37 units are composite mills and 58 units are spinning mills. Of the total of 95 units, 62 units are located in North India, with Punjab representing 65 per cent of the total. Western India has 25 units constituting 26 per cent of the total. Punjab in North India and Maharashtra in Western India dominate the woollen industry.

^{@ Source :} Wool and Woollens of India.

STATE-WISE DISTRIBUTION OF SPINDLES
AND LOOMS

State	Shoddy	Woollen	Worsted	Power looms
Punjab	2,939	31,934	46,880	679
Delhi	—	1,848	864	—
Uttar Pradesh ..	1,908	10,772	9,672	250
Himachal Pradesh ..	1,600	—	—	—
Maharashtra ..	10,992	4,788	53,232	530
Gujarat	—	5,230	9,140	167
Rajasthan	—	1,895	—	10
Mysore	—	330	11,124	182
West Bengal ..	240	1,380	6,472	89
Jammu & Kashmir ..	—	1,200	—	—
Madhya Pradesh ..	—	876	—	20
TOTAL	17,679	60,253	137,384	1,927

From the small beginning of only 16 units in 1957 the industry has now 95 units, over two lakh spindles and 3,000 looms in the organised sector and it employs over a lakh of workers.

The up-to-date figures of the industry's capacity as on Dec. 1968 were : woollen spindles 66,059 ; shoddy spindles 19,969 ; worsted spindles 140,880 ; and looms 3,000.

The production figures were as follows :

Year	Woollen worsted yarn (million kgs.)	Woollen worsted fabrics (million metres)	Woollen fabrics non- wearables (million kgs.)
1964	20.90	11.72	4.88
1965	18.13	9.87	4.08
1966	16.59	9.39	3.94
1967	16.65	8.92	3.33

The downward trend in output of woollen textiles, noticed since 1964, continued during 1967. Thus the index of production of woollen textile (base : 1956 = 100) which had declined from 136.9 in 1965 to 128.8 in 1966 fell further to 122.1 in 1967.

In spite of the increase in the supply of imported raw materials during 1967, the production of worsted yarns showed only a small rise.

The woollen industry consumed about 38 million kgs. of wool in all during 1967 in different sectors. Of this, 13 million kgs. were imported wool and the remaining was indigenous wool. The overall consumption of wool during 1967 was 3 per cent more than the consumption during 1966. The production of worsted yarn during 1967 was 45.30 lakh kgs. which was more by about 5 lakh kgs. as compared to 1966. The following table gives the production figures of different types of yarns, wool tops and fabrics.

Item	Unit	1965	1966	1967
1. Worsted yarn				
(a) Weaving ..	Lakh kgs.	22.40	19.00	24.40
(b) Hosiery ..	..	13.80	10.90	11.70
(c) Knitting ..	..	11.60	10.50	9.20
TOTAL .. ..	..	47.80	40.40	45.30

Item	Unit	1965	1966	1967
	Lakh			
2. Woollen yarn ..	kgs.	44.10	52.10	44.00
3. Carpet yarn ..	..	37.30	34.40	35.30
4. Shoddy yarn ..	..	52.10	39.00	41.90
TOTAL (1 to 4) ..	..	181.30	165.90	166.50
5. Wool tops ..	..	50.00	46.00	91.00
6. Fabrics				
	Lakh			
(a) Wearables ..	Meters	98.7	93.90	89.20
(b) Non-wearables ..	..	40.80	39.40	33.30

The balance of payment position in regard to woollen industry has to be appreciated from a study of the following table.

Year	Imports (Rs. crores)	Exports (Rs. crores)
1964-65	14.4	12.0
1965-66	12.0	6.6
1966-67	15.1	11.5
1967-68	16.1	11.8
Total	95.0	85.9

FIVE-YEAR PLANS

Among the various measures envisaged for the improvement of the industry in terms of both quantity of production and quality are the setting up of : (1) a central sheep and wool research institute at Malpura with a Plan outlay of Rs. 75 lakhs, (2) one wool research institute at Bombay, (3) wool processing plant at Visnagar, and (4) two central sheep breeding farms, one at Kulu (Himachal Pradesh) and the other at Kodaikanal (Tamil Nadu).

The estimated population of 40 million sheep produces about 70 million pounds of wool annually which forms only 1.3 per cent of the world production.

Reviewing the progress in the Third Plan, the Development Council for the Woollen Industry informed the Government that the production targets were most unlikely to be attained because of the shortage of raw materials, although the industry has set up necessary capacity. It also recommended that the per capita availability fixed for the Third Plan should be attained at least in the Fourth Plan.

The main features of the revised policy in regard to wool and woollen textiles are as follows : All imports of wool, either for domestic consumption or for export purposes will be canalised through the State Trading Corporation. The 20 per cent share earmarked for the worsted sector will be distributed among mills in the organised sector on the basis of their installed and recognised spindlage. The balance of the 80 per cent will be distributed among various sectors in the proportions of 55 per cent for weaving, 27 per cent for hosiery and 18 per cent for knitting. Units in the decentralised sector will get a direct allotment of wool. There will be no price distribution or production control. However, a part of the production of the woollen goods has to be distributed through super bazars and cooperatives.

During the year 1967, the woollen industry was permitted to import machinery valued at Rs. 46.6 lakhs for rehabilitation and modernisation. No expansion of the woollen industry is permitted at present, except with the indigenous machinery for spinning indigenous raw wool.

TEA INDUSTRY

WITH a production of 382.5 million kgs. in 1967, India still leads the world in tea production. Both in area and yield, India ranks first in the world (vide Table A below).

In India, tea is the second largest single item of export. Tea export in 1967-68 has been estimated at 210 million kgs. valued at Rs. 170 crores compared to 203.3 million kgs. valued at Rs. 180 crores in 1966-67.

Out of the total production about 41 per cent is being exported. In 1967, India contributed 41.1 per cent of the world export against Ceylon's 41.6 per cent.

Among the countries to which India exports tea, U.K. accounts for more than half of the exports. The country-wise export is given below :—

EXPORTS

(value in Rs. crores)

Countries	1966-67	1967-68
U.K.	82.0	99.8
U.S.S.R.	16.3	19.8
U.A.R.	11.9	9.2
U.S.A.	6.5	6.8
Sudan	4.5	5.9
Afghanistan	4.0	4.3
Canada	3.4	3.3
Iran	2.5	3.0
East European countries	4.3	2.9
Others	20.8	33.2

Prevailing Duties on Tea since 1969 March

Excise Duty per kg.

Zone I	a) Green tea	10	P
	b) Others	24	„
Zone II		40	„
Zone III		48	„
Zone IV		55	„
Zone V		65	„

Cess on Tea :—At present there exists a cess of four paise per kg. on all tea produced in India.

Export duty per Kg. :—15 per cent *ad valorem* reduced by 55 paise per kg. on all tea.

Instant tea is exempted from export duty. Excise duty on instant tea also is exempted when it is intended for export.

No export duty exists on tea packed in metal containers, and export duty on tea packed in other containers now prevails at 5 per cent *ad valorem*.

Tea export is also subjected to sales tax in the States.

In order to promote replantation, the Government has introduced a Replantation Subsidy Scheme in 1968. The rate of subsidy is fixed at Rs. 3,500 in the plains and Rs. 4,500 in the hills for every hectare replanted following the recommended planting techniques. At present, the rate of replantation is very low at 0.6 per cent per annum of the total area. This is expected to increase to 2 per cent under this scheme.

The revised targets of production and export of tea for the Third Plan were 376.5 million kgs. and 240.4 million kgs. respectively. The corresponding targets for the Fourth Plan are 453.6 million and 294.8 to 303.9 million kgs.

At Colombo, the average price for all tea moved down from Rs. 3.62 in 1966 to Rs. 3.48 in 1967. In London, the world price during the week beginning February 24, 1969 averaged at 3s 8.3d compared with 3s 8.7d for the corresponding week in 1968.

The internal prices during 1967 and 1966 are given below :

ANNUAL AVERAGE PRICE PER KG.

(Rupees)

Year	Calcutta		Cochin	
	Leaf	Dust	Leaf	Dust
1966	5.74	5.24	4.80	4.51
1967	5.98	4.91	5.79	5.04

Table A. TEA INDUSTRY

Area in Hectares	India	1965	1966	1967
		341,634	345,256	347,657
Yield (Kg. per hectare)	N. India*	n.a.	270,121	273,418
	S. India*	n.a.	75,135	75,638
	India	1,072	1,086	1,096
	N. India	1,024	1,034	1,064
	S. India	1,243	1,270	1,212
Production (million kgs)	World	726.5	742.6	704.5
	India	366.4	374.8	382.6
% share in Indian Production	N. India	74.6	74.5	76.0
	S. India	25.4	25.5	24.0
Registered No. of Estates in India ..	N. India	n.a.	2,522	2,522
	S. India	n.a.	8,301	8,301
	India	149.0*	166.0*	180.0*
Internal Consumption (million kgs) ..	World	503.7	472.0	520.5
	India	199.4	179.2	213.8
Export (million kgs)	India	39.6	38.0	41.1
India's share in World Export (per cent)				

Note : * Refers to financial year.

n.a. = not available.

FILM INDUSTRY

UNESCO has sponsored a study of Indian film heroes and the Institute of Social Sciences, Agra, has undertaken in co-operation with a group of International scientists, the study for which \$20,000 have been sanctioned in the first instance.

FILM INSTITUTE OF INDIA

Chiplunkar Road, Poona 4.

The Institute trains all categories of film technicians and artistes. It conducts diploma courses in Film Direction, Screenplay Writing, Motion Picture Photography, Sound Recording and Sound Engineering, Film Editing and Film Acting.

At the commencement of the eighth academic year (1968-69), the Institute had 151 students in various courses. So far 231 students have obtained diplomas. Out of these diploma holders, many are occupying responsible positions in the industry and in government organisations like Films Division and TV Station of All India Radio.

The Institute has extensive ground for out-door shooting; a processing laboratory for its work and well equipped studios. Whenever not required for the use of the Institute, these facilities are made available to outside producers on hire and this helps maintaining close contacts with the film industry. There are 22 foreign students on the Institute's rolls as against 14 of the last year. Countries represented are Afghanistan, Ceylon, Ghana, Jordan, Nepal, Philippines, Singapore and Tanzania.

There are hostels for boys and girls. There are seven girls at present undergoing training.

Film Library: The Institute has a film library in which film classics are being collected from various countries. So far, 117 films have been obtained from USSR, USA, UK, France, Germany, Italy, Czechoslovakia etc. The library also has some selected Indian features and documentaries.

National Film Archive of India: The National Film Archive of India is at present in the premises of the Film Institute, Poona. The present (31-12-1968) collection consists of 410 films (Indian & Foreign), 2,979 stills, 1,024 wall posters, 759 disc-records, 1,952 books and 107 journals. Notable among the acquisitions of the year 1968-69 are two full-length silent films "Gallant Hearts" (1930) and "Fall of Slavery" (1931), both produced by Shyam Sunder Aggarwal of Poona. The task of locating old Indian film material especially of the silent era is being pursued vigorously.

Children's Film Society: Its object is to produce, acquire, distribute and exhibit films of special interest to child and juvenile audience. The Society's Registered Office is at New Delhi and Administrative Headquarters at Bombay. Various State Governments and Union Territories are affiliate-members of the Society.

During the period April to March, 1968, about 3,090 shows were arranged in the cinema halls, schools, etc., which were attended by over 12,30,000 people.

A provision for the grant-in-aid to the Society of Rs. 5.50 lakhs was made in the budget for 1968-69. The Society earned a revenue of about Rs. 3.70 lakhs in 1967-68.

FILMS DIVISION

The Films Division is responsible for production and distribution of newsreels, documentaries and other films for general information and education of the people. Its output is about 150 films a year. Most of these films are made in English and thirteen Indian languages. The Division supplies about 35,000 prints of its films annually for commercial and non-commercial distribution. Nearly 30 million people see its documentaries and newsreels each week.

Documentaries: During the period April to December 1968 the Division produced 54 films (121 reels), purchased four films (8 reels) and accepted as donation 11 films (16 reels). Out of the 54 films, 12 films (21 reels)—one colour film (2 reels) and eleven black and white films—were produced through private producers. Eight colour films and 34 black and white films were produced by the Division's units. Of these 69 films 9 films were on family planning, 6 films on scientific farming, three on emergency and the remaining on a variety of subjects like developmental projects, savings, tourist publicity, external publicity, instructional training and teaching films and compilation films on visits of dignitaries. Between January and March 1969, 29 films were expected to be completed.

Newsreels: The production of newsreels continued according to the schedule of one reel a week in 14 languages viz., English, Hindi, Bengali, Tamil, Telugu, Marathi, Gujarati, Kannada, Malayalam, Assamese, Punjabi, Oriya, Urdu and Kashmiri. Stories were received from 26 foreign newsreel organisations as part of the arrangements for free exchange of newsreel material.

A Hindi print of the weekly newsreel and interesting sports items were supplied for use in the TV programme of All India Radio in New Delhi.

Newsreel coverage within the country is organised through 13 newsreel officers and two Junior Cameramen stationed in Delhi (4), Bombay (2), Calcutta (2), Madras (1), Ahmedabad (1), Hyderabad (1), Lucknow (1), Bangalore (1), Bhopal (1) and Chandigarh (1).

Production by Films Division 1964-65 to 1967-68

Year	Documentaries		News-reels	Compilation News-reels	Total
	B & W	Colour			
1964-65 ..	84	12	52	8	166
1965-66 ..	113*	22	52	—	187
1966-67 ..	76	12	56@	—	144
1967-68 ..	49	5	44†	—	98
(April to Dec.)					
1968-69 ..	45	9	39‡	—	93
(April to Dec.)					

* Including 43 for New York World Fair.

@ Including 5 special news reels. † Including 5 special news-reels. ‡ Including one special newsreel.

Field Publicity

Nearly 14,800 prints were supplied to the field units of the Directorate of Field Publicity, State Governments, Films Division branches, Railway zone, Department of Community Development, Ministry of Education, the Exhibition Division of the Directorate of Advertising and

Visual Publicity, Development Commissioners, Social Education Organisers and training centres for exhibition through mobile vans.

Non-Commercial Exhibition

From April to December 18, 1968 some 6,000 prints were sold to schools, Government departments and private bodies. These include prints supplied to the Ministry of External Affairs for exhibition through Indian Missions abroad. During April to November 1968, 3,871 shows were given by organisations to which prints were loaned and about 10 lakh persons attended the shows.

Against a Budget Grant of Rs. 1,54,29,500 a total expenditure of Rs. 1,23,77,263 was booked up to the end of December 1968 by the Films Division.

AWARDS

(See article 'Awards and Prizes')

Film Festivals: The Division participated in 32 international film festivals by entering 71 documentary films and received 25 diplomas and certificates of participation. Five documentary films of the Films Division won National Awards for films for 1967.

CENTRAL BOARD OF FILM CENSORS

The Board of Film Censors is a statutory body set up under the Cinematograph Act, 1952, for sanctioning films for public exhibition. Films suitable for unrestricted exhibition are granted 'U' certificates and those suitable for public exhibition restricted to adults only are given 'A' certificates.

The certificates issued by the Board are valid for 10 years from the date of issue. Provision exists for the issue of fresh certificates in respect of such films after the expiry of the 10-year period.

During 1968, the Central Board of Film Censors examined 2,858 films. 41 films were referred to Revising Committees. The Board granted 1,618 'U' certificates and 119 'A' certificates in respect of foreign films, the corresponding number of Indian films being 1,522 'U' and 8 'A' certificates. Certificate was refused to 22 films, of which 20 were foreign and 2 Indian. The total footage excised from the films was 5,536.29 metres. There were 1,468 films classified by the Board as Predominantly Educational.

Fresh certificates were issued for 485 films, for which certificates had been issued more than 10 years ago. Of these 10 were granted 'A' certificates. Recertification was not refused in the case of any feature film.

16 MM. FILMS

The use of the 16 mm. film for propaganda and publicity is realised by Governments, municipalities, and trade and industry.

The National Institute of Audio-Visual Education now renamed as the Department of Audio-Visual Education (National Council of Educational Research and Training), Indraprastha Estate, New Delhi, has been doing excellent work with 16 mm. films on a variety of topics. Its Library is the single largest collection of 16 mm. films, mainly for information and education. The films are loaned to member institutions free of charge. Films are sent to outstation members by registered post at the expense of the department.

There are in addition 16 mm. projectors and small theatres for films suitable for non-theatrical audiences maintained by the British Information Services, the British Council and the U.S. Information Services through their regional offices.

Most of the diplomatic missions and embassies in the Capital and Consulates in Bombay, Madras and Calcutta maintain a film section and arrange shows of special films.

The U.K. and U.S.A. representatives and the British Council maintain a special library of educational and informative films. These are available for exhibition free of charge.

16 mm. films on a variety of subjects are available from many countries in the world.

EXPORT, IMPORT

India is the second largest film producing country in the world. She produces annually between 300 to 320 films in 12 Indian languages. Production of colour pictures is on the increase. Export demand is mainly for Hindi and Tamil films. Indian films are exported to nearly 100 countries in the world. The total export earnings from Indian films during 1967-68 were Rs. 3.89 crores and during 1968-69 were expected to be about Rs. 3.25 crores to 3.50 crores. About 70% of the export earnings are realised from countries known as the traditional markets. They are the U.K., East Africa, Iran, Mauritius, West Indies, Ceylon, Singapore, Malaysia, Burma, Thailand, Fiji, Indonesia, Persian Gulf and West Africa. Bombay, Madras and Calcutta are the principal ports of export.

Some of the importing countries like Kenya, Tanzania, Ghana, Iraq, Syria, Ceylon, Burma and Indonesia have imposed restrictions on the import of Indian films due to their foreign exchange difficulties. The above countries among themselves account for about 38% of our total exports.

Export Earnings

Our export earnings (Rs. crores) on Indian films from 1965 to March 1968 were as follows:—1965: 2.20; 1966: 2.20; 1967: 3.52; 1968 (up to March) 0.89. (These are based on figures released by the Reserve Bank of India.)

Indian films are also exported to other non-traditional markets like the U.S.S.R., the U.S.A. and Canada.

PRODUCTION

Films produced by India during the last seven years in black and white and colour respectively were: 1961: 289, 8; 1962: 307, 5; 1963: 287, 12; 1964: 269, 24; 1965: 290, 32; 1966: 276, 32; 1967: 285, 45.

Language-wise break-up of Indian feature films certified during Jan. 1, 1968 to Sept. 30, 1968: Hindi/Urdu/Bhojpuri/Rajasthani/Avadhi/ Madghi/Dogri 44; Marathi 12; Punjabi 2; Gujarati 3; Konkani —; Sindhi —; Nepali 1; Bengali 19; Assamese 1; Oriya 2; Tamil 46; Telugu 56; Kannada 28; Malayalam 26; English —; Arabic 1; Total 241.

IMPORT OF FILMS (Cinematographic)

	Raw Films		Exposed Films	
	Length ('000 metres)	Value (Rs. in lakhs)	Length ('000 metres)	Value (Rs. in lakhs)
1964-65 ..	75,770	345	3,908	52
1965-66 ..	86,314	397	2,359	35
1966-67 ..	45,454	222	8,149	78
1967-68 ..	66,265	382	4,675	53

Note: Value is at post-devaluation rate.

IMPORT OF EQUIPMENT

(Rs. in lakhs) (Post-devaluation rate)

Description	1964-65	1965-66	1966-67	1967-68
Cinematographic projectors ..	4	10	10	5
Cinematographic sound recorders and sound reproducers (excl. those operating solely by a magnetic process).	1	3	2	1

EXHIBITION ABROAD

Copies of documentaries are in demand for regular exhibition in 84 Indian Missions abroad. Many television authorities show considerable interest in Indian films and the documentaries are frequently used by them through the Tourist Officers/Indian Missions in their respective countries

Catalogue of the Films Division's documentaries is available with the Missions abroad.

STEEL INDUSTRY

THE first successful and the most outstanding attempt to manufacture steel in the country on a commercial basis was that of the Tata Iron & Steel Co. which started its Steel Works at Sakchi in the year 1908. Pig iron was made in 1911 and the first steel ingot a year later.

The Indian Iron & Steel Company was started in 1918 at Hirapur about 4 miles from Asansol junction on the Eastern Railway for producing pig iron. Eighteen years later it floated another company, the Steel Corporation of Bengal to manufacture steel. Towards the end of 1962 the two companies were merged.

An iron works was started at Bhadravati in Mysore State in 1921 to which a steel plant was added in 1934. During World War II, a 25-ton basic furnace and two small electric furnaces were installed.

The total productive capital employed as per ASI data (1966) is about Rs. 1,206 crores. The total number of

factories registered is 741 and the number of persons employed 2,93,302.

The three steel plants set up in the public sector during the Second Plan period are Rourkela, Bhilai and Durgapur mills under the management of Hindustan Steel Ltd. which also manages the Rourkela Fertiliser plant, the coal washeries and the construction and operation of the Alloy Steel Plant at Durgapur. The shares are owned wholly by the Central Government. At the end of March 1967, the paid-up capital of HSL was Rs. 528 crores, and borrowings from Government Rs. 500.5 crores. During 1967-68 the HSL produced 3,975,000 tonnes of pig iron, 3,447,000 tonnes of ingot, 2,419,000 tonnes of saleable steel and 190,000 tonnes of C.A.N.

Total Assets of the main producers of iron and steel: 1966-67 (Rs. crores); Hindustan Steel 1,066; TISCO 176; Indian Iron 112; Total 1,354.

Production of Saleable Pig Iron & Finished Steel

('000 Tonnes)

Producer	Pig Iron		Finished Steel	
	1966	1967	1966	1967
TISCO	2.7	1.0	1,072.1	1,015.0
IISCO	203.2	177.5	579.2	489.6
Mysore	—	—	57.6	58.1
Rourkela	64.4	58.9	654.1	582.5
Bhilai	498.8	635.5	736.0	660.0
Durgapur	261.2	210.8	417.4	380.6
Others	21.8	24.2	975.1	949.7
Total	1,052.1	1,107.9	4,491.5	4,135.5

Source: Report (1967-68), Ministry of Steel, Mines and Metals (Dept. of Iron & Steel).

PRODUCTION

The recent trend of production in India is given below:

('000 Tonnes)

	Year						
	1961	1962	1963	1964	1965	1966	1967
Pig Iron	4,988	5,796	6,604	6,593	6,952	7,044	6,868
Steel Ingots	4,084	5,149	5,970	6,032	6,413	6,606	6,380
Semi-finished Steel	1,049	1,103	1,196	1,068	998	1,356	1,445
Finished Steel	2,798	3,564	4,258	4,342	4,519	4,472	4,111

Source: Monthly Statistics of Industrial Production in India.

Proved and probable reserves of iron ore in India are estimated to be about 71.12 lakh tonnes.

Bokaro Unit

The first phase of Bokaro Steel plant is expected to be completed by the end of December, 1971 and the first blast furnace will be commissioned by September, 1970. According to the scheme approved by the Government, the first stage of the Bokaro Steel Plant would have a capacity of 1.7 million tonnes of steel ingots and 8.8 lakh tonnes of foundry iron.

EXPORTS AND IMPORTS OF IRON & STEEL INDUSTRY

(Rs. Crores)

Year			Imports	Exports
1966-67	..	..	97.9	24.7
1967-68	..	..	106.2	54.8

Among the Indian organisations exporting iron and steel, the largest share was that of Hindustan Steel Ltd. The second place was held by re-rollers. Regionwise break-up shows that the largest share of these exports went to Persian Gulf States, UAR, Iraq, Sudan and other Arab countries. Japan is the largest buyer of pig-iron.

AVAILABILITY

The total availability of finished steel during 1967-68 is estimated at 4.6 million tonnes taking into account the indigenous production of 4.3 million tonnes and import of about 0.3 million tonnes.

The availability of pig iron during 1967-68 is placed at 1.2 million tonnes.

All categories of iron and steel were decontrolled in May 1967 and their distribution was made by the Joint Plant Committee. With effect from May 1, 1967, price control was removed from all categories of iron and steel. The entire responsibility for fixing of prices was entrusted to the Joint Plant Committee.

Re-rolling Industry

In this field, there are different categories of producers like billet re-rollers, registered scrap re-rollers etc. The capacity of re-rolling units and their billet entitlements have been subjects of considerable controversy. In April 1965, the Government appointed a technical committee to make a rational assessment of the capacity of re-rolling mills. The following were the specific terms of reference of the Committee: (a) assess the capacity of re-rolling mills whether working on billets or scrap. (b) recommend what types of merchant products the re-rolling mills can roll economically and (c) indicate what units are out-dated and/or uneconomic.

The broad conclusion of this committee in respect of the overall re-rolling capacity is that for the country as a whole, there is no scope for installation of any more re-rolling mills at present. In view of this, Government has decided not to allow the setting up of such units where industrial licences are necessary under the Industries (Development & Regulation) Act. Units in small-scale sector, however, can come up without such licences. The Government has decided not to encourage creation of further re-rolling capacity except in underdeveloped or backward areas where specific proposals for re-rolling mills will be considered on merits.

Re-rollers use steel semis (Billets) and steel re-rollable scrap for rolling steel sections mostly lighter sizes of bars, rods, flats, hoops and strips, etc. The main sources of

supply are the main producers, Messrs. Tata Iron & Steel Co. Ltd., Indian Iron & Steel Co., Ltd., Hindustan Steel Ltd. (Bhilai and Durgapur). Re-rollable scrap is also available from miscellaneous other sources such as, the Railways, Engineering Concerns, etc. Present availability both of billets and scrap is inadequate and so the full capacity is not being utilised.

The re-rolling industry's potential capacity per annum is estimated at about three million tonnes. A new private sector project is to be launched at Faridabad in Haryana to manufacture cast rolls and heavy and alloy steel castings. The Rs. 4.5-crore project is a joint venture of Globe Motors Ltd. of Delhi and United Engineering and Foundry Company of U.S.

Raw materials required by the industry:—Having regard to the recent developments it was estimated that the recognised sector of the re-rolling industry including the Secondary Producers would require about 1.8 million tons of semis by the end of the Third Plan period. As against this provision was made for supply of only 1 million tons of semis during the Third Plan from the main producers.

The re-rollers at places like Amritsar, Jullundur, etc. situated at considerable distance from the ports had to incur heavy freight charges which inflated their production costs. Relief was given to all outstation re-rollers from 1953 when the maximum statutory prices became applicable to deliveries *f.o.r.* all railhead stations in India.

Steel Pipes

Eight major steel pipe manufacturing companies are (1) Ambika Steel Tubes, (2) Bharat Steel Tubes, (3) Gujarat Steel Tubes, (4) Indian Tubes, (5) Jayant Tubes, (6) Jindal Tubes, (7) Kalinga Tubes and (8) Zenith Steel Pipes. The home demand is estimated to be 175,000 tonnes, while the capacity has shot up from 225,000 tonnes to 350,000 tonnes.

The Century Spg. & Mfg. Co. proposes to manufacture seamless steel pipes. The project is estimated to cost Rs. 15 crores with an annual capacity of 88,000 tonnes. The plant is to be set up in two stages. In the first stage, the plant will have a capacity of 44,000 tonnes.

Alloy Steels Project

The total domestic demand of alloy steels by 1970-71 is estimated to be five lakh tonnes per annum. To achieve this, a capacity of nearly 8 lakh tonnes has been sanctioned. This includes a capacity of 2.57 lakh tonnes in the private sector.

A capacity of about 50,000 tonnes has already been installed in the private sector and another 50,000 tonnes is under installation. About, 30,000 tonnes of it were likely to materialise during the year 1967-68.

The trend of production in seamless tubes, steel pipes and tubes and cast iron spun pipes and tubes is given below:

(Metric tons)

			Seamless tubes	Steel pipes and tubes	Cast iron pipes and tubes
1964	..	..	15,204	234,204	207,312
1965	..	..	16,728	253,944	244,032
1966	..	..	21,396	263,952	233,028
1967	..	..	23,448	219,996	166,068

Source: Monthly Statistics of Industrial production in India.

RAILWAYS

THE total route kilometrage of all the Railways in India on March 31, 1968 was 59,338·70. The total electrified route kilometrage was 2,836·38.

The total route kilometrage is made up of the following:
Government Railways (k.m.) 58,877·30.

Non-Government Railways : 461·40.

The total capital at charge of Government Railways on March 31, 1968 was Rs. 2,667·03 crores.

There are three kinds of gauge, broad (1·676 m.), metre (1·000 m.) and narrow (0·762 m.). There is also a light gauge usually laid on the mountains (0·610 m.). An example of the last one is the Howrah-Amta Light Railway lines subsidised by the district board.

The total route kilometrage by gauge was as follows :

Broad gauge : 28,671·35.

Metre gauge : 25,723·46.

Narrow gauge : 4,943·89.

There are in all 7,885 railway stations. This includes 1,742 non-block stations.

The total number of employees, permanent and temporary, on Government Railways (including non-Government Railways) and in the office of the Railway Board and other offices attached and subordinate thereto as well as staff employed on construction works at the end of 1967-68 was 1,367,790. Of this the non-Government Railways accounted for 4,601. The Railways have a fleet service of approximately 11,692 locomotives, 29,290 coaching vehicles and 361,832 wagons or freight cars. The non-Government Railways have 95 locomotives, 302 passenger coaches and 1,434 goods wagons.

ZONAL ADMINISTRATION

The entire Government Railway system is now grouped into nine administrations (Headquarters within brackets) : Southern Railway (Madras) ; Western Railway (Bombay) ; Central Railway (Bombay) ; Northern Railway (Delhi) ; Eastern Railway (Calcutta) ; South-Eastern Railway (Calcutta) ; North-Eastern Railway (Gorakhpur) ; North-East Frontier Railway (Pandu) ; South Central Railway (Secunderabad).

Some of these Railways comprise smaller systems.

There are six non-Government Railways. The route kilometrage is given in brackets after the name :—

Arrah-Sasaram Light (104·86) ; Dehri-Rohtas Light (66·75) ; Futwah-Islampur (43·45) ; Howrah-Amta Light (70·31) ; Howrah-Sheakhala Light (27·16) ; Shahdara (Delhi)-Saharanpur Light (148·87).

They are all narrow gauge (0·762 m.) except the two Howrah-Amta and Howrah-Sheakhala which are light gauge (0·610 m.).

The highest administrative authority for the Railways is the Railway Board.

There are a number of Committees which have been associated with the Railway Administration : Standing Finance Committee, Central Advisory Council, Railway Rates Tribunal, Indian Railway Fuel Committee.

There are also a number of standardization Committees such as for bridges, structure, track, signalling and

inter-locking, building, locomotive, carriage and wagon, electrical, specifications.

There are also Railway Users' Consultative Committees at the zonal, regional and national level. There is a Time Tables Committee, Suburban Railway Users' Consultative Committee, Passenger Amenities Committee, Catering Supervisory Committee, Book-Stall Committee. A Public Co-operative Committee consisting of members from National Railway Users' Consultative Council and Members of Parliament was formed to combat crime. Zonal Parliamentary Committees have been constituted which meet the respective General Managers of the Zonal Railways in company with the Railway Minister and the Railway Board.

There are Railway Service Commissions in Bombay, Calcutta, Allahabad and Madras.

There is a training college for Railway officers and staff at Baroda and 50 Training Schools.

There is a Railway Testing and Research Centre at Lucknow and a sub-centre at Chittaranjan mainly to help in the promotion of self-sufficiency in Railway Stores.

STATISTICS*

The principal statistics for the year 1967-68 are given below. The first column shows the position for all Railways, the second only for Government Railways :

	All Railways	Government Railways
Capital-at-charge (Rs. crores) ⁷	2,984·60	2,667·03
Route kilometrage (March 31)	59,338·70	58,877·30
Gross earnings (Rs. crores) ¹ ..	823·05†	821·26†
Total working expenses (Rs. crores) ²	696·12†	694·38†
Operating ratio (per cent) ³	84·58	84·55
No. of passengers originating (million)	2,275·86	2,257·35
Passenger k.m. (million) ..	107,513·42	107,163·03
Earnings from carriage of passengers (Rs. crores) ..	253·64†	252·64
Average earnings per passenger kilometre (Paise) ..	2·36†	2·36†
Freight tonnes originating (million) ⁴	197·63	196·58
Freight tonne k.m. (million)	118,919·66	118,860·36
Earnings from carriage of goods (Rs. crores) ⁵ ..	489·70	489·04
Average earnings per freight tonne k.m. (Paise) ..	4·85	4·85
Total train k.m. (million) @	456·94	454·06
Gross earnings per train k.m. (Rs.)	19·00†	19·10†
Working expenses ² per train k.m. (Rs.)	16·20†	16·30†
Net earnings ⁶ per train k.m. (Rs.)	2·81†	2·83†
Net earnings ⁶ per mean route k.m. worked (Rs.) ..	21,704·00†	21,864·00

(1) 'Gross earnings' represent the true earnings in an accounting period irrespective of whether the amounts have been realised or not. They include earnings from Mormugao Harbour and also earnings awaiting realisation. (2) 'Working expenses' are the administrative figures of railway accounts representing true expenses of the railway system in an accounting period irrespective of whether the expenses

* Source : Railway Board Report for 1967-68.

@ Excludes rail car kilometres.

have been disbursed. (3) 'Operating ratio' shown here represents the percentage of working expenses to gross earnings as defined in explanations at (1) & (2) above. (4) Freight tonnes originating, includes the tonnage of railway stores and materials carried in material/ballast trains on open lines for railway constructions/project authorities, in stock owned or hired by them for independent railway project works. These statistics were not taken into account in earlier years. (5) 'Earnings from carriage of goods' exclude earnings from demurrage wharfage, etc. (6) 'Net earnings' represents gross earnings minus working expenses, as defined in explanation (1) and (2) above. (7) 'Capital at Charge' includes the capital outlay on worked lines but excludes that on railway manufacturing units and miscellaneous independent projects such as the Chittaranjan Locomotive Works, the Integral Coach Factory, the Diesel Locomotive Works, etc.

† Includes the element of tax on passenger fares.

‡ During 1967-68 the contribution to the Depreciation Reserve Fund was Rs. 95 crores as against Rs. 100 crores in the previous year.

Other information about Indian Railways for 1967-68 are given below :—

New Lines opened to Traffic	268.66 k.m.
Lines under Construction	1,709.31 k.m.
Total No. of Locos	11,692
No. of Steam Locos (including sentinel types)	10,321
No. of Diesel Electric Locos	795
No. of Electric Locos	479
No. of Diesel Hydraulic and Mechanical	97
No. of Passenger Carriages (including brake vans and Railway services vehicles)	32,503
Total No. of Seats	1,637,639 ¹
No. of air-conditioned seats	2,484
No. of 1st Class seats	1,24,847
No. of 2nd Class seats	64,947
No. of 3rd Class seats	1,415,359
No. of Goods Wagons	361,832
Total carrying Capacity in tonnes	7,359,282
Total No. of Passengers Carried ('000)	2,257,350
No. of A.C. ('000)	243.3
No. of 1st Class Passengers ('000)	77,893.0
No. of 2nd Class Passengers ('000)	11,648.3
No. of 3rd Class Passengers ('000)	2,167,724.2
Total passenger k.m. ('000)	107,163,034
Average k.m. a passenger carried	47.5
Total Earnings from Passengers (Rs. in '000)	2,52,64,38
Earnings from A.C. Passengers (Rs. in '000)	2,33,19
Earnings from 1st Class Passengers (Rs. in '000)	18,15,11
Earnings from 2nd Class Passengers (Rs. in '000)	8,33,38
Earnings from 3rd Class Passengers (Rs. in '000)	2,23,82,70
Goods Carried ('000 tonnes)	197,627
Net tonne k.m. ('000)	118,919,657
Average k.m. a tonne of Goods was carried	601.4
Value of stores imported direct (Rs. in '000)	34,64,30
Value of imported stores purchased in India ('000)	8,33,74
Value of stores of indigenous origin (Rs. in '000)	2,81,43,30
Cost of Police and Railway Protection Force (in Rupees)	11,96,59,824
Capital-at-charge, Chittaranjan Works (Rs. in '000)	47,75,89
Capital-at-charge, Integral Coach Factory (Rs. in '000)	23,48,28
Capital-at-charge, Diesel Locomotive Works (Rs. in '000)	40,45,12
Capital-at-charge, D. B. K. Railway Project (Rs. in '000)	65,51,38
Railway Electrification (Rs. in '000)	1,31,37,48
Railway Board (Rs. in '000)	4,59,62

¹ Including standing accommodation of electric multiple unit stock.

STAFF

The total strength of Staff including non-Govt.

Railways (March 31, 1968)	1,367,790
Class I and II Staff	7,531
Class III Staff	557,534
Class III and IV Staff	798,220
Non-Govt. Railway Staff	4,601
Class III running Staff	65,404
Class III Workshop and Artisan Staff	178,726
Class III Staff other than Workshop artisan and running	313,404
Class IV running Staff	25,822
Class IV other than Workshop artisan and running	560,518
Class IV Workshop artisan	211,880
The total cost of Class I and Class II (Rs. in '000)	10,04,80
The total cost of Class III running staff (Rs. in '000)	31,38,93
The total cost of Class III staff other than running, workshop and artisan (Rs. in '000)	1,25,07,54
The total cost of Class III staff, Workshop and artisan (Highly skilled, skilled and skilled supervisory) (Rs. in '000)	60,08,17
The total cost of Class IV running staff (Rs. in '000)	7,17,32
The total cost of Class IV staff other than workshop artisan and running (Rs. in '000)	95,39,10
Class IV, workshop and artisan (Rs. in '000)	37,90,67
Total cost of workshop artisan staff, Class III or IV (Rs. in '000)	97,98,84
Man-days lost due to Sickness for classes other than I and II	16,001,427
Man-days lost due to Strikes and labour trouble by staff other than Class I & II	9,303
Total Man-days lost	16,010,776
No. of attacks by various kinds of diseases	392,796
No. of deaths due to various kinds of diseases	651

Female Employees

Total No. of Female Employees	16,717
Class I and Class II Officers	183
Class III Staff:	
Workshop and artisan staff	Nil
Clerks	3,834
Stenographers	155
Nurses	2,016
Teachers	1,172
Others	1,613
Class IV Staff:	
Workshop and artisan staff	345
Other than workshop and artisan staff	7,399

MAJOR ACCIDENTS IN 1967-68

The following were the five major Railway accidents which took place during 1967-68: (1) At 21.50 hours on May 24, 1967 there was a derailment at Kuppam Station of the Southern Railway involving 26 Up Bangalore City-Cochin Harbour Terminus Express killing 63 persons and injuring 80 persons due to the failure of the Railway staff causing damage to the extent of Rs. 4,52,600. (2) At 3-10 hours on Sept. 28, 1967 there was a derailment of 4 Down Assam Mail at Fakiragram-Alipur Junction of the N.E.F. Railway killing 15 and injuring 40 persons causing damage to the tune of Rs. 3,99,600. (3) At 22.14 hours on February 14, 1968 some prospective rail-travellers attempting to cross the railway line in the face of the

approaching train were run over by 12 Down Delhi-Howrah Express at Luckeesarai of Eastern Railway killing 18 and injuring 11 persons. (4) At 22.35 hours on March 19, 1968 as a result of a collision between 208 Down Poona-Bangalore Deccan Express and 215 Up Birur-Hubli passenger at Yalvigi station of Southern Railway 58 people were killed and 37 injured involving a damage of Rs. 6,07,200. The accident was due to the failure of the Railway staff. (5) On March 30, 1968 there was a collision between E. 460 Down goods train and AGA Down passenger at Bharwari Station of Northern Railway killing 19 and injuring 30 persons causing damage to the extent of Rs. 9,01,300. The accident happened as a result of the failure of the Railway Staff.

Casualties 1967-68

	Killed	Injured
Passengers	546	3,294
Railway Servants	325	19,026
Other than passengers & Railway Staff	591	609
Trespassers	4,248	2,163
Suicides	323	44
Total	6,033	25,136

CENTRAL RAILWAY, 1967-68

(Victoria Terminus, Bombay 1)

<i>Total Route Kilometrage</i>	..	..	..	..	5,770.22
<i>Broad Gauge</i>	..	..	..	..	4,590.99
<i>Metre Gauge</i>	..	..	..	..	382.67
<i>Narrow Gauge</i>	..	..	..	..	796.56
<i>New Construction in Hand, Kilometrage</i>	..	..	..	..	159.95
<i>Kilometrage Electrified</i>	..	..	..	..	297.54
<i>Capital-at-Charge (Rs. in Crores)</i>	..	..	..	..	375.13
<i>Gross Earnings</i>	"	"	"	..	118.17
<i>Working Expenses</i>	"	"	"	..	94.23
<i>Net Earnings</i>	"	"	"	..	23.94
<i>No. of Locos actually running</i>	}	<i>Steam</i>	..	1,020	
<i>on March 31, 1968</i>			<i>Electric</i>	..	104
			<i>Diesel</i>	..	168
<i>Total No. of Passenger Carriages actually running on March 31, 1968</i>	..	..	..	1,851	
<i>Seats by Classes :—</i>					
<i>Air-conditioned</i>	..	..	..	..	280
<i>First Class</i>	..	..	..	..	9,496
<i>Second Class</i>	..	..	..	..	4,979
<i>Third Class</i>	..	..	..	..	98,221
<i>No. of Passengers carried (in millions)</i>	..	..	..	..	510.6
<i>No. of Wagons actually running</i>	}	<i>Covered</i>	..	31,947	
<i>on March 31, 1968</i>			<i>Open</i>	..	13,016
<i>Tonnage carried (in millions)</i>	..	..	..	..	36.31
<i>Total No. of Staff on March 31, 1968</i>	..	..	..	..	1,79,606

EASTERN RAILWAY, 1967-68

(Fairlie Place, Calcutta)

<i>Total Route Kilometrage</i>	4,143.88
<i>Broad Gauge</i>	4,012.50
<i>Metre Gauge</i>	—
<i>Narrow Gauge</i>	131.38
<i>Kilometrage electrified</i>	1,202.86
<i>Capital-at-charge (Rs. in Crores)</i>	354.84
<i>Gross earnings (Rs. in Crores)</i>	114.52
<i>Working expenses (Rs. in Crores)</i>	94.82
<i>Net earnings (Rs. in Crores)</i>	19.70

No. of Rolling stock on 31-3-68 :

<i>Locomotives :</i>	
<i>Steam</i>	1,197
<i>Diesel</i>	98
<i>Electric</i>	160
<i>Motor Coaches</i>	93
<i>Trailer Coaches (in vehicle units)</i>	467
<i>Passenger Carriages (in vehicle units)</i>	2,679
<i>Other Coaching vehicles (in vehicle units)</i>	432
<i>Wagons (in vehicle units)</i>	66,225
<i>No. of passengers carried</i>	328.10 million
<i>Total tonnage lifted (originating)</i>	51.08 million
<i>Staff</i>	197,739

NORTHERN RAILWAY, 1967-68

(Baroda House, New Delhi 1)

Total kilometrage	..	..	..	..	10,576.30
Broad Gauge	..	..	..	..	6,883.99
Metre Gauge	..	..	..	..	3,432.75
Narrow Gauge	..	..	..	..	259.56
Mileage Electrified	..	..	..	..	351.00
Capital-at-charge (Rs. in crores)	..	..	..	..	395.55
Gross earnings (Rs. in crores)	..	..	..	..	114.14
Working expenses (Rs. in crores)	..	..	..	..	103.58
No. of passengers carried on the system (in million)	..	..	..	..	244.51
Net earnings (Rs. in crores)	..	..	..	..	10.56
No. of Locos :		B.G.	M.G.	N.G.	
Steam	..	1,286	370	49	
Diesel Hydraulic	..	15	—	15	
Electric	..	68	—	—	
Diesel Electric	..	72	—	—	
No. of passenger coaches		2,525	926	146	
Passenger carrying capacity :					
Air-conditioned	..	273	72	—	
1st Class	..	11,269	2,198	494	
2nd Class	..	7,945	2,466	252	
3rd Class	..	150,253	43,149	3,624	
		+ 647	+ 13		
		berths	berths		
No. of goods wagons, open :					
High sided	..	13,654	974	51	
Low sided	..	518	235	3	
No. of goods wagons :					
Covered	..	26,345	5,190	134	
Tonnage lifted (Tonnes in million)	..	..	..	..	42.26
Staff (Total)	..	..	..	..	200,076

NORTH-EASTERN RAILWAY, 1967-68

(Gorakhpur)

<i>Total kilometrage</i>	4,965.23
<i>Broad Gauge</i>	52.47
<i>Metre Gauge</i>	4,912.76
<i>Narrow Gauge</i>	Nil
<i>New Construction in Hand</i>	Nil
<i>Kilometrage Electrified</i>	Nil
<i>Capital-at-charge (Rs. in crores)</i>	1,04.31
<i>Gross Earnings (Rs. in crores)</i>	37.53
<i>Working expenses (Rs. in crores)</i>	41.55
<i>Net Earnings (Rs. in crores)</i>	(—) 4.02
<i>Total No. of Engines on line (in units)</i>	873
<i>No. of Locos (Electric) (in units)</i>	Nil
<i>No. of passenger coaches (in units)</i>	2,514

Passenger Carrying Capacity :—

(a) Air-conditioned	.. .. .	96
(b) 1st Class	.. .. .	6,174
(c) 2nd Class	.. .. .	7,724
(d) 3rd Class	.. .. .	121,291
Total	.. .. .	135,285
No. of passengers carried (in '000s)	.. .. .	154,002
Broad Gauge	.. .. .	1,182
Metre Gauge	.. .. .	152,820
No. of Goods Wagons, Covered (in units)	.. .. .	20,145
No. of Goods Wagons, Open (in units)	.. .. .	5,001
No. of Goods Wagons, Special (in units)	.. .. .	4,315
Tonnage lifted (tonnes in thousands)	.. .. .	13,378
No. of Staff (Total) (in units)	.. .. .	92,492

NORTH-EAST FRONTIER RAILWAY, 1967-68

(Pandu, Assam)

Total Route Kms.	.. .. .	3,632.48
BG	.. .. .	645.21
MG	.. .. .	2,899.79
NG	.. .. .	87.48
Mileage electrified	.. .. .	Nil
Capital-at-Charge (Rs. in crores)	.. .. .	193.00
No. of locos :		
(a) Steam	BG	91
	MG	405
	NG	31
(b) Diesel	BG	Nil
	MG	67
	NG	Nil
(c) Electric	BG	Nil
	MG	Nil
	NG	Nil
No. of passenger coaches	BG	218
	MG	1,384
Passenger carrying capacity :		
Air-conditioned	MG	70
1st Class	MG	3,813
	BG	990
2nd Class	MG	2,622
	BG	778
3rd Class	MG	63,679
	BG	13,573
No. of passengers carried (on the system)	.. .. .	50,048,000
No. of goods wagons (covered) (in units) MG	.. .. .	7,182
No. of goods wagons (open) (in units) MG	.. .. .	2,698
Tonnes carried (Total) .. .. .	.. .. .	10,712,805
No. of staff (Total) .. .. .	.. .. .	80,334

SOUTH CENTRAL RAILWAY, 1967-68

(Secunderabad-25)

Total Route Kilometrage (as on 31-3-1968) :		
Broad Gauge	.. .. .	2,605.81
Metre Gauge	.. .. .	3,183.26
Narrow Gauge	.. .. .	370.19
New Construction in Hand (Conversion of M.G. to B.G.)	Poona-Miraj Section	
Kilometrage	.. .. .	279.19
Kilometrage electrified	.. .. .	Nil
Capital-at-Charge (in Rs. '000s)	.. .. .	16,18,044
Gross Revenue Receipts (in Rs. lakhs)	.. .. .	6,737.49
Working Expenses	.. .. .	4,780.44
Net Revenue Receipts	.. .. .	1,957.05
Average No. on line daily :		
No. of Locos :		
Steam	.. .. .	1,013
Electric	.. .. .	Nil
Diesel Electric	.. .. .	Nil

No. of passenger coaches	.. .. .	1,700
Air-conditioned passenger seating capacity	.. .. .	Nil
1st Class	.. .. .	5,969
2nd Class	.. .. .	5,309
3rd Class	.. .. .	102,074
No. of passengers carried (in thousands)	.. .. .	140,080
No. of goods wagons (covered) .. .. .	.. .. .	2,342*
No. of goods wagons (open) .. .. .	.. .. .	957*
Tonnage lifted (tonnes in thousands)	.. .. .	11,032
Staff (Total) .. .. .	.. .. .	95,232

* Exclusive of the entire B.G. stock and the M.G. stock so far as it relates to S. Rly. portion.

SOUTHERN RAILWAY, 1967-68

(Madras Central, Madras)

Route kilometrage (a) Total	7,283.85
(b) Broad Gauge	2,320.94
(c) Metre Gauge	4,806.15
(d) Narrow Gauge	156.76
New construction in hand (Kms.)	
(a) Mangalore-Hassan Line	189.21
(b) Bangalore-Salem Line	229.33
(c) Mangalore-Panambur Harbour Link	25.86
Kilometrage electrified	166.44
Capital-at-Charge (Rs. in crores)	296.29
Gross Earnings (Rs. in crores)	76.31
Working Expenses (Rs. in crores)	75.31
Net Earnings (Rs. in crores)	1.00
Rolling Stock :—	
(a) Average No. of locos on line :—	
(1) Steam	1,208
(2) Electric	20
(3) Diesel Electric	124
(b) Average No. of passenger coaches on line	3,688
Passenger seating capacity :—	
(a) Air-conditioned	399
(b) 1st Class	13,748
(c) 2nd Class	10,334
(d) 3rd Class	226,466
No. of passengers carried (in '000s)	238,809
No. of Goods wagons (a) Covered	28,197
(b) Open	12,933
Tonnes carried (in thousands)	18,683
Staff (Total)	134,442

SOUTH-EASTERN RAILWAY, 1967-68

(Garden Reach, Calcutta 43)

Total Route Kilometrage	.. .. .	6,357.71
Broad Gauge	.. .. .	4,878.88
Metre Gauge	.. .. .	Nil
Narrow Gauge	.. .. .	1,478.83
Kilometrage electrified	.. .. .	758.37
Kilometrage under construction	.. .. .	75.41
Capital-at-Charge (Rs. crores)	.. .. .	461.58
Gross Earnings (Rs. crores)	.. .. .	133.67
Working Expenses (Rs. crores)	.. .. .	90.83
Number of Locos :—		
Steam	.. .. .	1,037
Diesel Electric	.. .. .	189
Diesel Hydraulic	.. .. .	15
Electric	.. .. .	117
Railcars	.. .. .	Nil
No. of passenger coaches	.. .. .	2,175
No. of Goods Wagons :—		
Covered	.. .. .	14,705
Open	.. .. .	22,368
No. of Staff	.. .. .	1,67,329

Passenger carrying capacity :

<i>Air-conditioned</i>	334
<i>1st Class</i>	9,672
<i>2nd Class</i>	5,381
<i>3rd Class</i>	1,10,650
<i>No. of passengers carried</i>	107,465,000
<i>Tonnes of Goods lifted</i>	64,776,000
<i>Capital-at-Charge</i>	Rs. 4,61,58,29,000
<i>Gross Earnings</i>	„ 1,33,66,54,000
<i>Working Expenses</i>	„ 90,82,75,000
<i>Net Earnings</i>	„ 42,83,79,000

WESTERN RAILWAY, 1967-68

(Churchgate, Bombay)

<i>Total Route Kilometrage</i>	9,988.38
<i>Broad Gauge (including Electrified Kms.)</i>	2,680.56
<i>Metre Gauge</i>	6,106.08
<i>Narrow Gauge</i>	1,201.74
<i>Kilometrage Electrified</i>	60.17
<i>Capital-at-Charge (Rs. in crores) (excluding suspense)</i>	323.83
<i>Gross Revenue Earnings (Rs. in crores)</i>	126.87
<i>Working expenses (excluding suspense) (Rs. in crores)</i>	97.60
<i>Net Revenue Earnings (Rs. in crores)</i>	29.27
<i>No. of locos (Steam)</i>	1,642
<i>No. of locos (Diesel Electric)</i>	105
<i>No. of locos (Diesel Hydraulic)</i>	27
<i>Electric Motor coaches</i>	106
<i>No. of passenger coaches (including other coaching vehicles)</i>	4,716
<i>Passenger carrying capacity (seats by classes) :—</i>	
(i) <i>Air-conditioned :</i>	
<i>B.G.</i>	394
<i>M.G.</i>	100
(ii) <i>First Class :</i>	
<i>B.G.</i>	12,338
<i>M.G.</i>	8,482
<i>N.G.</i>	887
(iii) <i>2nd Class :</i>	
<i>B.G.</i>	4,298
<i>M.G.</i>	5,432
(vi) <i>Third Class :</i>	
<i>B.G.</i>	81,780
<i>M.G.</i>	110,680
<i>N.G.</i>	11,092
<i>No. of passengers carried (in thousands)</i>	615,801
<i>No. of Goods wagons (covered)</i>	30,106
<i>No. of special wagons</i>	8,122
<i>No. of Goods wagons (open)</i>	12,348
<i>Tonnes carried (in thousands) (Rev. & Non-Rev.)</i>	33,193
<i>No. of staff</i>	180,780

REVIEW OF 1967-68**Goods and Passenger Traffic**

Rail transport capacity for carriage of goods continued to be ahead of demands in 1967-68. Against an initial anticipation of 8.6 million tonnes of additional originating revenue earning goods traffic during 1967-68 and a revised estimate of one million tonnes less, the actual materialisation was 1.64 million tonnes or one per cent less than the previous year. The net tonne kilometres increased by 1.85 per cent indicating longer lead.

The upward trend in passenger traffic continued during the year 1967-68. The number of passengers travelling increased by 3 per cent from 2,192 millions in 1966-67 to 2,257 millions in 1967-68. Passenger kilometres registered a rise of 4.91 per cent in 1967-68 over the previous year, indicating a marginal increase of about a kilometre per journey.

The gross traffic receipts amounted to Rs. 818.14 crores in 1967-68 against Rs. 768.78 crores in 1966-67. Ordinary working expenses were Rs. 588.22 crores against Rs. 525.61 crores in 1966-67. The increase in working expenses was mainly due to enhancement in rates of dearness allowance twice during the year, an upward revision of prices of coal and diesel oil, higher expenditure on electrical installations, etc. After meeting all charges including Rs. 95 crores contribution to the Depreciation Reserve Fund and Rs. 141.53 crores paid as Dividend to the General Revenues, there was a shortfall of Rs. 31.53 crores which was met by withdrawing from the Railway Revenue Reserve Fund.

New Lines

New lines aggregating 269 route kilometres were opened for traffic. Doubling of 525 kilometres of existing lines, electrification of 76 route kilometres and conversion of 74 kilometres of electrified sections from 3,000V DC to 25KV AC system were completed during the year.

With effect from July 1, 1967, the management of the Ahmadpur-Katwa (51.92 kilometres) and Bankura-Damodar River (96.48 kilometres) Narrow Gauge lines was taken over by the Eastern and South Eastern Railways respectively from Messrs. McLeod & Co., Calcutta.

Operation

Interchange of freight traffic *via* most of the junction points remained fluid. Outstanding demand at the close of the year was equivalent to a day's loading on the broad gauge and 2½ days' loading on the metre gauge. Special arrangements were made for the expeditious long distance movement of imported foodgrains from various ports to drought-affected areas in Bihar and U.P.

The first trunk route 4.5 tonne container service was introduced between Bombay and New Delhi in November, 1967.

Amenities

The Railways spent Rs. 3.08 crores on various works for increased amenities for passengers both at stations and on trains.

Ticketless Travel

Nearly eight million passengers were detected travelling without tickets or with improper tickets during the year and a sum of Rs. 2.69 crores was realised from them as fare and excess charges. The number of passengers prosecuted for travelling without tickets totalled 270,000.

Signalling & Safety Works

Signalling and safety works completed during the year included route relay interlocking at various stations, installation of automatic signalling on 66 route kilometres, multiple aspect colour light signals at 89 stations, track circuits on the reception lines of yards at 181 stations, etc.

Stores

The total value of equipment and stores purchased by the Railways during 1967-68 amounted to Rs. 324.4 crores as compared to Rs. 296 crores in 1966-67. Indigenous purchases accounted for 86.75 per cent against 85.96 per cent in 1966-67.

Staff and Labour Welfare

The number of staff employed on Indian Government Railways at the end of 1967-68 was 1.36 million. Per capita cost of medical and health services increased from Rs. 99.92 to Rs. 111.96 in 1967-68.

A total of 9,023 quarters and 23 barracks was constructed for the staff in 1967-68.

Relations between the labour and the Railway Administrations generally remained cordial during the year.

RAILWAY BUDGET 1969-70

The Railway Budget presented on February 19, 1969 by Dr. Ram Subhag Singh shows a surplus of Rs. 1.91 crores, the first in four years. The Budget envisages a

Rs. 45-crore increase in traffic receipts next year against an increase of Rs. 25.35 crores in working expenses. The works programme has been kept down and a Rs. 4-crore cut made in inventories. There will be no increase in railway fares or freight.

The Budget foresees an increase of 9 million tonnes in freight traffic next year. It is hoped that if the present trend of revival in passenger traffic, noticed since August last year, is maintained, there would be an increase of 3 per cent in passenger traffic also next year.

AT A GLANCE

(Rupees in crores)

	Actuals 1967-68	Budget Estimates 1968-69	Revised Estimates 1968-69	Budget Estimates 1969-70
Gross Traffic Receipts	818.14	892.50	902.15	946.80
Ordinary Revenue Working Expenses (Net) i.e., after taking credit for recoveries	588.22	614.01	640.00	665.35
Appropriation to Depreciation Reserve Fund from Revenue	95.00	100.00	95.00	95.00
Appropriation to Pension Fund	10.00	10.00	10.00	10.00
Net Miscellaneous Expenditure (including cost of Works charged to Revenue)	14.92	15.49	15.83	15.53
Total	708.14	739.50	760.83	785.88
Net Railway Revenue	110.00	153.00	141.32	160.92
Dividend to General Revenues	141.53	152.00	151.33	159.01
Net Surplus (+)/Deficit (—)	(—) 31.53	(+) 1.00	(—) 10.01	(+) 1.91
Operating ratio	84.7%	81.1%	82.6%	81.4%

Note : 1. The shortfall of Rs. 10.01 crores in the current year is mainly due to post-Budget increases amounting to Rs. 20.66 crores on account of revision of the rates of dearness allowance, travelling allowance and running allowance etc., the additional expenditure due to the merger of dearness allowance with pay, and the increase in coal prices and electricity tariffs. These increases are offset by a reduction of Rs. 5 crores in the contribution to the Depreciation Reserve Fund (reflecting the lower estimate of withdrawal from the fund this year) and the expected increase of Rs. 9.65 crores in gross traffic receipts.

2. The Budget for the year 1969-70 shows a small surplus of Rs. 1.91 crores after meeting all revenue expenses. A temporary loan of Rs. 18.69 crores will, however, have to be obtained from the General Revenues to finance expenditure charged to the Development Fund. The fund will owe Rs. 45.80 crores in all to the General Revenues at the end of 1969-70.

The revival of passenger traffic, noticed since August last year, is expected to be maintained and passenger traffic next year is expected to be 3 per cent higher than this year. Passenger earnings for 1969-70 are estimated at Rs. 217 crores.

Other coaching earnings are estimated at Rs. 47.5 crores and sundry earnings at Rs. 30.5 crores. An allowance of Rs. 4.2 crores has been made for an increase in unrealised sundry earnings.

Works Programme

A provision of Rs. 255 crores has been made for next year for investment in Works, Rolling Stock and Machinery. Rolling Stock and Machinery, including advances to private manufacturers for materials will account for Rs. 118 crores and net expenditure on works will amount to Rs. 134 crores. A reduction of Rs. 4 crores is expected under the head "Inventories".

The Works Programme has been kept at a reasonable minimum level. Among the important new works included are the doubling of some portions on the Grand Trunk route between Agra and Bina on the Central Railway and between Kazipet and Balharshah on the South Central Railway; doubling of some patches between Jalarpet and Cochin on the Southern Railway and between Alnia and Kota on the Western Railway; restoration of the

Thurbhita-Bhaptiahi line on the North Eastern Railway; and the doubling of the Rajabehra-Bokharo Steel City and Muri-Hatia sections of the South Eastern Railway to serve the requirements at the Bokharo Steel plant.

Fourth Plan : Making a reference to the Fourth Five Year Plan, the Minister for Railways said that the best projection of traffic growth made in consultation with the Planning Commission and the Ministries concerned, indicated that at the end of the Plan traffic would increase by 62 million tonnes over the current year. More than half of it would be contributed by movements of raw materials including coal to the steel plants, coal for other consumers and iron ore for export. Finished products from steel plants and cement would increase by 3 million tonnes each. With the hopeful prospects of increase in traffic, the existing capacity of the Railways would be more fully utilised and the Railways' financial position could be expected to improve provided increase in wages and prices did not affect the position as they had done in recent years.

Divisional System

The Railway Minister announced that the divisional system would be introduced in the North-Eastern and North-East Frontier Railways, where both the complexity of railway operation and work load had increased. The North-Eastern Railway would have four divisions with

headquarters at Izatnagar, Lucknow, Varanasi and Samastipur. On the North-East Frontier Railway all the operating districts would be upgraded to divisions except Tinsukhia which will be only a transportation division till the workload justifies its becoming a full division.

Electrification

The Nandgaon-Bhusaval section of the Central Railway would be electrified this year and the Andul-Calcutta chord link of the Eastern Railway during the next year. Electrification was proceeding on the Kanpur-Tundla section of the Northern Railway and field work would begin soon on the Virar-Sabarmati section of the Western Railway.

Fair Deal to Staff

After enumerating the various decisions taken during the year to substantially improve the service conditions of railway staff, Dr. Ram Subhag Singh said necessary relief would be provided to staff who had been at the maximum of their pay scales for some time. This would be in addition to any benefits that may come from the recommendations of the one-man tribunal under the former Chief Justice of Gujarat, Mr. N. M. Miabhoy, appointed to go into the demands of the National Federation of Indian Railwaymen.

Further adjustments in the cadre of railway officers were under consideration.

RESEARCH

RESearch in pure science is carried out mainly in the universities, scientific surveys of the Government, and in some research institutes such as the Tata Institute of Fundamental Research. The Council of Scientific & Industrial Research (C.S.I.R.) and the Department of Atomic Energy provide facilities for fundamental or basic research in their laboratories and institutes, and also sponsor such research in universities and research institutions all over the country.

Research in applied science and for industrial development is done mainly under the auspices of the C.S.I.R., the Co-operative Industrial Research Associations, institutes functioning under various Ministries and the laboratories attached to a few industrial concerns.

The Shri Ram Institute for Industrial Research, Delhi, undertakes, on a 'non-profit' basis, researches on projects sponsored by industrial concerns, groups of companies, individuals and Government agencies.

Research in engineering subjects is undertaken in some of the C.S.I.R. laboratories and institutes, the Indian Institute of Science, Bangalore, Central and State Hydraulic Engineering Research Stations, higher technological institutions, like the Indian Institute of Technology, Kharagpur, and in a few engineering colleges, such as the College of Engineering and Technology, Jadavpur.

The Council of Scientific & Industrial Research, also sponsors engineering research in various institutions through its research committees.

Agricultural research is looked after by the Indian Council of Agricultural Research, New Delhi, The Indian Agricultural Research Institute, New Delhi, and the various Central Committees for agricultural commodities like the Indian Central Cotton Committee, Indian Central Jute Committee, etc. and the research institutes functioning under the Ministry of Food and Agriculture. (See article on Agriculture.)

The Indian Veterinary Research Institute, Izatnagar (U.P.) is concerned with veterinary diseases. The National Dairy Research Institute at Karnal in the Punjab works on dairy research.

Research in forestry and forest products is undertaken by the Forest Research Institute and Colleges at Dehra Dun.

Medical research is carried out under the auspices of the Indian Council of Medical Research, institutes functioning under the Ministry of Health, and the Council of Scientific and Industrial Research.

Research in the humanities—literature, language, the arts, etc.—is done at individual institutions scattered throughout the country.

Research in social problems such as social tensions, social welfare and labour welfare is conducted as part of their work at many universities.

About 275 research journals (English) are published in India. These cover a wide range of subjects, grouped as follows: General science, 31; Engineering, including civil, electrical, telecommunication and aeronautical, 31; Chemistry, including biochemistry, chemical technology, plastics, paint, oils and fats, soap, and food, 21; Agriculture, including forestry, 35; and Medical sciences, 64.

SCIENTIFIC SOCIETIES

Role of Scientific Societies: (i) Bringing together of scientists specialized in the same area of knowledge; (ii) Affording them an opportunity for inter-communication of ideas within a discipline or between various disciplines through conferences, special discussions and publication of journals; (iii) Serving as a platform for discussing general problems of science, such as organization, education, problems of manpower; (iv) Acting as a forum for crystallization of ideas regarding the relation of science to society and as a centre for disseminating and popularizing science; (v) Recognizing contributions to science of its members and conferring distinctions on them.

PHYSICAL SCIENCE SOCIETIES

Indian Mathematical Society: Hansraj College, Delhi-6; *Indian Geographical Society:* University Centenary Buildings, Madras-5; *Institution of Chemists (India):* Chemical Department, Medical College, Calcutta-12; *The Indian Physical Society:* 2 and 3, Raja Subhod Mallik Road, Jadavpur, Calcutta-32; *Calcutta Statistical Association:* Calcutta University, Asutosh Building, Calcutta-12; *National Geographical Society of India:* Department of Geography, B.H.U., Varanasi-5; *Hyderabad Science Society:* 12-2-460, Malkapur, Asifnagar, Hyderabad-6 (A.P.); *Deccan Section of the Royal Institute of Chemistry:* Indian Institute of Science, Bangalore; *Indian Society of Agricultural Statistics:* Library Avenue, P.B. No. 310, New Delhi-12; *Bharat Ganita Parishad:* Department of Mathematics, Lucknow University, Lucknow; *Geographical Society of India:* C/o Geography Department, Calcutta University, 35, Ballyganj, Circular Road, Calcutta-19; *The Electrochemical Society of India:* Department of Inorganic & Physical Chemistry, Indian Institute of Science, Bangalore-12; *The Indian Society of*

Theoretical and Applied Mechanics: Indian Institute of Technology, Kharagpur; *Indian Meteorological Society*: Meteorological Office, Lodi Road, New Delhi-3; *Geological Society of India*: Race Course Road, Bangalore-1; *Indian Interplanetary Society*: 9, Hastings Street, Calcutta-1.

MEDICAL SCIENCE SOCIETIES

Ahmedabad Medical Society: (Branch of Indian Medical Association), Opp. H. K. Arts College, Ashram Road, Ahmedabad-9; *Bombay Sanitary Association*: Public Health Department, Municipal Offices Building, Bombay-1; *Association of Medical Women in India*: New Hospital for Women, New Queen's Road, Bombay-4; *Mysore Medical Association*: Fort, Bangalore-2; *No. of Branches*: 26; *All India Ophthalmological Society*: Bombay Mutual Building, Sir P. Mehta Road, Bombay-1; *Gujarat Research Society*: Samsodhan Sadan, South Avenue, Khar, Bombay-52; *Indian Psychoanalytical Society*: 14, Parsibagan Lane, Calcutta-9; *Association of Surgeons of India*: Madras; *Madras Psychology Society*: Department of Psychology, Madras-5; *All India Dental Association*: India House, Cumballa Hill, Bombay-26; *Society for the Study of Industrial Medicine*: 243, Khetwadi Main Road, Bombay-4; *Indian Society of Anaesthetists*: K. E. M. Corner, Indore (GPO), M.P.; *Cardiological Society of India*: 67, Dharamtolla Street, Calcutta-13; *Federation of Obstetric & Gynaecological Societies of India*: Purandare Griha, Chowpatty Sea Face, Bombay-7; *The National Society of India for Malaria & Other Mosquito Borne Diseases*: 22, Alipore Road, Delhi-6; *Neurological Society of India*: (Temporary address) C/o Dr. Anil D. Desai, 534, Sandhurst Bridge, Bombay 7; *Indian Cancer Society*: Hospital Avenue, Parel, Bombay-12; *The Indian Association of Physio-Therapists*: Patel Chambers, 5th Floor, French Bridge, Bombay-7; *Indian Public Health Association*: 110, Chittaranjan Avenue, Calcutta-12; *Indian Association of Leprologists*: Govt. Leprosy Subsidiary Centre, Attur (Salem District), Tamil Nadu; *Indian Society of Haematology*: Secretary's Office, 28, Lady Hardinge Road, New Delhi; *The Indian Association of the Chest Diseases*: C/o The Patel Chest Institute, University Campus, Delhi-6; *Indian Academy of Dentistry*: Govt. Dental College Hospital, Bombay-1; *The Anatomical Society of India*: Department of Anatomy, B. J. Medical College, Poona; *Indian Academy of Medical Sciences*: I.C.M.R. Building, Ansari Nagar, New Delhi-16; *Indian Association of Dermatologists and Venereologists*: (Western India Branch), Queen's Road, Bombay-4.

BIOLOGICAL SCIENCE SOCIETIES

The Royal Agri-Horticultural Society of India: 1, Alipore Road, Alipore, Calcutta-27; *Indian Botanical Society*: School of Plant Morphology, Meerut College, Meerut; *The Indian Veterinary Association*: 7, First Street, Vidyodaya East, T. Nagar Madras-17; *The Bengal Natural History Society*: Natural History Museum, Darjeeling; *Bombay Natural History Society*: 91, Walkeshwar Road, Bombay-6 W. B.; *Indian Society of Soil Science*: Indian Agricultural Research Institute, New Delhi-12; *Botanical Society of Bengal*: 35, Ballygunge Circular Road, Calcutta-19; *The Physiological Society of India*: 50/2, Dharamtolla Street, Calcutta-13; *The Entomological Society of India*: Indian Agricultural Research Institute, New Delhi-12; *The Palaeobotanical Society*: Lucknow; *Maharashtra Association for the Cultivation of Science*: Servants of India Society Building, Poona-4; *Ethnographic and Folk Culture Society**: Department of Anthropology, University of Lucknow, Lucknow; *Indian Phytopathological Society*: Indian Agricultural Research Institute, New Delhi-12; *Palaeontological Society of India*: Lucknow; *The Bombay Aquarium Society*: Taraporewala

Aquarium, Bombay-2; *International Society of Plant Morphologists*: Department of Botany, University of Delhi, Delhi-6; *The Bombay Biological Association*: 92, Waterfield Cross Road, Bandra, Bombay-50; *Mycological Society*: Department of Botany, University College of Science, 35, Ballygunge Circular Road, Calcutta-19; *International Society of Tropical Ecology*: Department of Botany, B.H.U., Varanasi-5; *Society of Biological Chemists, India*: Indian Institute of Science, Bangalore-12; *Indian Society for Plant Physiology*: Division of Botany, Indian Agricultural Research Institute, New Delhi-12; *Association of Microbiologists of India*: P-27, Prinsep Street, Calcutta-13; *Marine Biological Association of India*: Mandapam Camp, Madras State; *The Zoological Society*: 35, Ballygunge Circular Road, Calcutta-19; *Society of Indian Foresters*: F. R. I., Dehra Dun, U.P.; *Zootomical Society of India*: G/14, Beyond Ladies Colony, Banaras Hindu University, Varanasi-5; *Bihar Academy of Agricultural Science*: P. O. Sabour, Bhagalpur; *Indian Society of Genetics & Plant Breeding*: Division of Botany, Indian Agricultural Research Institute, New Delhi-12; *Oil Technological Research Institute*: Anantapur, Andhra Pradesh.

ENGINEERING AND TECHNOLOGICAL SOCIETIES

Indian Engineering Association: 6, Netaji Subhash Road, Calcutta-1; *The Bombay Textile & Engineering Association*: 343, Satar Building, Grant Road, Bombay-7; *Mining, Geological & Metallurgical Institute of India*: 29, Chowringhee Road, Calcutta-16; *The Mechanical Engineers' Association (India)*: Janmabhoomi Chambers, 29, Fort Street, Ballard Estate, Fort, Bombay-1; *The Institution of Engineers (India)*: 8, Gokhale Road, Calcutta-20; *The Association of Engineers*: 24, Netaji Subhash Road, Calcutta-1; *Electrical Engineering Society*: Indian Institute of Science, Bangalore-12; *The Sugar Technologists' Association of India*: P.O. Kalyanpur, Kanpur; *Indian Ceramic Society*: C/o Banaras Hindu University, Varanasi-5; *The Indian Institute of Architects*: Prospect Chambers Annexe, Dr. Dadabhai Naoroji Road, Bombay; *The Geological Mining & Metallurgical Society of India*: Geology Department, Presidency College, Calcutta-12; *The Oil Technologists' Association of India*: Nawabganj, Kanpur; *Indian Society of Engineers*: 12-B Netaji Subhash Road, Calcutta-1; *The Indian Institute of Metals*: 31, Chowringhee Road, Calcutta-16; *The Textile Association*: "Santosh", 72-A, Shivaji Park, Bombay-28; *Gujarat Institute of Civil Engineers & Architects*: Law College Road, Ahmedabad-6; *The Aeronautical Society of India*: 13/B, Indraprastha Estate, New Delhi-1; *Institution of Surveyors*: Kashmir House, King George's Avenue, New Delhi; *Quality Control Association*: 4, Richmond Road, Bangalore-25; *Indian Institute of Chemical Engineers*: Jadavpur University Campus, Calcutta-32; *The Institution of Telecommunication Engineers*: F/12, South Extension Part II, Ring Road, New Delhi; *Indian Society of Rayon Technologists*: 144, Dharavi Road, Bombay-17; *Indian Leather Technologists' Association*: Mercantile Buildings, Lal Bazar, Calcutta-1; *Essential Oil Association of India*: H. B. Technological Institute, Kanpur; *Institute of Consulting Engineers*: Central Office, 9, Hastings Street, Calcutta-1; *International Commission on Irrigation and Drainage*: Golf Links, New Delhi-3; *The Society of Power Engineers*: 'Clermont', Simla-4; *The Chemical Engineering Association*: Indian Institute of Science, Bangalore-12.

GENERAL SOCIETIES

Asiatic Society: 1, Park Street, Calcutta-16; *Indian Association for the Cultivation of Science*: Jadavpur,

* This has been included in this group for want of a separate grouping for this discipline.

Calcutta-32; *Indian Science Congress Association*: 64, Dilkhusa Street, Calcutta-17; *Vijnana Parishad*: Muir College Compounds, Thornhill Road, Allahabad-2; *The National Academy of Sciences*: 5, Lajpatrai Road, Allahabad-2; *National Institute of Sciences of India*: Mathura Road, New Delhi-1.

Indian Science News Association: 92, Acharya Prafulla Chandra Road, Calcutta-9; *The Current Science Association*: Bangalore; *Science Club*: 1110, S. N. Banerjee Road, Calcutta-13; *Bangiya Bijnan Parishad*: 294/2/1, Acharya Prafulla Chandra Road, Calcutta-9; *Assam Science Society*: Department of Mathematics & Statistics, Gauhati University, Assam; *Kamarupa Anusandhan Samiti*: Assam Research Society, Gauhati; *The Institute of Information Scientists*: C.S.I.R. Building, Rafi Marg, New Delhi-1; *All India Science Teachers' Association*: 33, Probyn Road, Delhi-6; *The Rajasthan Academy of Sciences*: Pilani (Rajasthan).

RESEARCH IN HUMANITIES

Research in the humanities—literature, language, arts, etc.—is engaging the attention of individual institutions scattered throughout the country.

Anjuman-Islam Urdu Research Institute, D. Naoroji Road, Bombay 1; Anthropological Society of Bombay, C/o K. R. Cama Oriental Research Institute, 136, Apollo Street, Bombay; Bangiya Sahitya Prashad, 243-1, Upper Circular Road, Calcutta; Bhandarkar Oriental Research Institute, Poona; Bharatiya Itihasa Samshodhaka Mandal, Sadashiv Peth, Poona; Bharatiya Vidya Bhawan, Chowpatty, Bombay; B. J. Institute of Learning and Research, Bhadra, Ahmedabad; B. M. Institute of Child Development, Pharmacy College, Navrangpura, Ahmedabad; Bureau of Psychology, Allahabad; D. A. Memorial Institute, C/o Bharatiya Itihasa Samshodhaka Mandal, Poona; Deccan College of Post-Graduate and Research Institute, Poona; Department of Anthropology, Indian Museum, 27, Chowringhee Road, Calcutta; Department of Archaeology, Ministry of Education, New Delhi; Department of Historical and Antiquarian Studies, Gauhati; Dharmakosha Mandal (Vedic Research Institute), C/o Prajna Pathshala, Wai, District Satara; Ganganath Jha Research Institute, Allahabad; Gokhale Institute of Politics and Economics, Poona; Gujarat Research Society, Bombay; Hindi Vidya Pith, Deoghar, Bihar; Indian Institute of Education, 11, Horniman Circle, Bombay; Indian Institute of Philosophy, Amalner, Dt. Jalgaon, Maharashtra; Kannada Research Institute, Dharwar; Karnatak Research Society, Dharwar; K. F. Jayaswal Research Institute, Patna; K. R. Cama Oriental Institute, 136, Apollo Street, Bombay; Kuppaswami Sastri Research Institute, Mylapore, Madras; Mandir Vidya Pith, Bhagalpur, Bihar; Marathi Sanshodhan Mandal, Mumbai; Marathi Granth-sangrahalaya, Thakurdwar, Bombay; Mithila Institute of Post-Graduate Studies and Research in Sanskrit Learning, Darbhanga, Bihar; Nalanda Pali Institute, P.O. Nalanda, Patna; National Archives of India, Ministry of Education, New Delhi; Oriental Research Institute, Mysore; Rajasthan Vishva Vidya Peeth, Udaipur; Rajwade Samshodhan Mandal, Dhulia, Maharashtra; Scindia Research Institute, Ujjain; Shri G. K. Institute of Rural Education, Gargoti, Kolhapur District; Sheth Bholabhai Jeshingbhai Institute of Learning and Research, Bhadra, Ahmedabad; Shri Farbes Gujarati Sabha, Bombay; Tata Institute of Social Sciences, Chembur, Bombay; The Asiatic Society, 1, Park Street, Calcutta; Vachan Mantapa (Kannada Research Institute), Belgaum; Venkateswara Research Institute Tirupati; Vaidika Samshodhana Mandal, Tilak Memorial, Poona; Vaishali Prakrit Institute, Muzaffarpur;

Vishveshwaranand Vedic Research Institute, Hoshiarpur, Punjab.

OTHER RESEARCH SOCIETIES

Physical Science: Association of Applied Physicists, 92, Acharya P. C. Ray Road, Calcutta-9; Calcutta Mathematical Society, 92, Acharya P. C. Ray Road, Calcutta-9; Indian Chemical Society, 92, Acharya P. C. Ray Road, Calcutta-9; Bombay Geographical Association, Parle College Mablou, Bombay-57; Association of Indian Geographers, P.B. No. 644, New Delhi.

Medical Science: Association of Pediatricians of India, Back-Bay View, New Queen's Road, Bombay-4; Association of Physicians of India, "Dream Lands", New Queen's Road, Bombay-4; Helminthological Society of India, School of Tropical Medicine, Calcutta-12; Indian Medical Association, Shri Niwas, S. V. Patel Road, Bombay-4; Society of Experimental Medical Science (India), P-27, Prinsep Street, Calcutta-13; Tropical Diet Research Society, 1/6, Fakir Chakravarti Lane, Calcutta-6; Indian Society of Gastroenterology, D/3, Ansari Nagar, New Delhi-16; Association of Otolaryngologists of India, Lampert's Hospital, Marshal's Road, Egmore, Madras-8; The Indian Radiological Association, 148, Big Street Madras; Madras Medical Association, Madras Medical College, Madras; Bombay Veterinary Medical Association, Rani Nagar, H. No. A-7/1, Nagpur.

Biological Science: Horticultural Society of India, Indian Agricultural Research Institute, Pusa Road, New Delhi-12; Indian Dairy Science Association, Hosur Road, Bangalore-1; Indian Ecological Society, I.A.R.I., Pusa Road, New Delhi-12; Indian Society of Agronomy, I.A.R.I., Pusa Road, New Delhi-12; South Indian Horticultural Association, Lawley Road, P.O. Coimbatore; Zoological Society of India, Zoological Survey of India, Calcutta.

Engineering & Technological: Engineering Association of Northern India, G.T. Road, Batala (Gurdaspur), Punjab; Indian Metallurgical Association, 20, Strand Road, Calcutta-1; Indian Pharmaceutical Association, Bharati Bhavan, 3rd Floor, 213-219, Frere Road, Fort, Bombay-1; Institute of Industrial Engineers, Hindustan Lever Ltd., Bombay; Society for Corrosion and Coating Technology, Govt. Test House, Alipore, Calcutta; Society of Electronics Engineers, Electronics Research and Development Establishment, P.O. Box No. 108, Bangalore-1; Institution of Electrical Engineers, 1, Forbes Street, Fort, Bombay-1; Technological Association, Dept. of Chemical Technology, Matunga Road, Bombay-19; Indian Roads Congress, Jamnagar House, Mansingh Road, New Delhi; Minerological Society of India, A.C. College Building, Guindy, Madras-25; Indian National Society of Soil Mechanics and Foundation Engineers, New Delhi.

General: Indian Academy of Sciences, Hebbal P.O., Bangalore.

COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Scientific research under state auspices in India is carried out mainly through the Council of Scientific and Industrial Research and the various National Laboratories/Institutes set up under its control and in the universities and research institutes aided by the Council.

The promotion, guidance and coordination of industrial research in India and the utilization of the results of the researches towards the development of industries in the country are the main aims of this Council. During the past 20 years, the laboratories of the Council have carried

out pioneering work in the development of technological knowledge for utilising the vast resources of the country. The services rendered by them in investigation and research on indigenous raw materials and adaptation of processes to Indian conditions have helped in the establishment of major industries in the country.

The research projects are selected on the priority basis by a Board of Scientific and Industrial Research consisting of scientists, technologists and industrialists. Greater emphasis is now being laid on applied research. The research programmes of the Council are currently being reoriented to the needs of the country and to put to maximum advantage the available resources. The Council's laboratories have released about 270 processes to the industry, out of which about 135 processes are in actual production. Besides there are about 250 processes which are now ready for exploitation.

The Council has a liberal system of grants-in-aid through which scientists in other technical institutions, industrial laboratories and universities are supported to pursue fundamental and applied research and develop their own specialised fields of research. It also grants fellowships to qualified persons who wish to pursue science as career.

National Research Development Corporation

(See under All India Corporations).

NATIONAL LABORATORIES

There are 37 National Laboratories/Institutes/Units and three museums functioning under the Council of Scientific and Industrial Research. There are a number of regional foundry stations, drug farms and factories and other regional centres functioning under the various laboratories and institutes.

The names of the Laboratories/Institutes and Units with their locations (in Italics), at various centres in the country and the functions entrusted to them are as follows :—

National Physical Laboratory, New Delhi :—Research in problems relating to Physics, both fundamental and applied. Maintenance of Standards Testing facilities are also available.

National Chemical Laboratory, Poona :—Fundamental and applied research covering the whole field of chemistry for which other specialised institutes have not been set up. The National Collection of Type Cultures is housed in the Laboratory.

Central Fuel Research Institute, Jealgora (Bihar) :—Fundamental and applied research on fuels—solid, liquid and gaseous. Physical and chemical surveys of Indian coals are conducted through seven coal survey stations under the Institute. It maintains seven coal survey stations.

Central Glass and Ceramic Research Institute, Jadavpur :—Research on different aspects of glass and ceramics, pottery, porcelain, refractories and enamels; development of processes for manufacture of glass and ceramic articles; standardisation of raw materials used in the ceramic industry. It also maintains a glass, ceramic and mineral field research unit at Regional Research Laboratory, Jammu-Tawi.

Central Food Technological Research Institute, Mysore :—Food processing and conservation of food, food engineering and all aspects of fruit technology. Regional Fruit and Vegetable Preservation Stations at Trichur, Nagpur, Bombay, Lucknow, Mangalore, Simla, Jammu-Tawi and Cuddapah have been recently established.

National Metallurgical Laboratory, Jamshedpur :—Fundamental & applied metallurgical research. It maintains four regional foundry research stations; located at Punjab, Howrah, Madras and West Bengal.

Central Drug Research Institute, Lucknow :—All aspects of drug research including evaluation & standardisation of crude drugs, discovery of substitutes for pharmacopoeial drugs and plants, pharmaceutical and synthetic chemicals, biochemistry and biophysics, infection, immunisation, pharmacology, chemotherapy & experimental medicine.

Central Road Research Institute, New Delhi :—Research on road materials, testing of road materials and road surfaces.

Central Electro-Chemical Research Institute, Karaikudi (Madras) : Research on different aspects of electro-chemistry, including electro-metallurgy, electro-deposition and allied problems. The institute has two testing centres at Madras and Ramanathapuram.

Central Leather Research Institute, Madras :—Fundamental and applied aspects of leather technology. The institute has five extension centres at Calcutta, Rajkot, Jullundur, Kanpur and Bombay.

Central Building Research Institute, Roorkee :—Engineering and structural aspects of building and human comforts in relation to buildings.

Central Electronics Engineering Research Institute, Pilani (Rajasthan) :—Design and construction of electronic equipment and components and test equipment.

National Botanic Gardens, Lucknow :—Collection & large-scale cultivation of economic and medicinal plants of industrial importance.

Central Salt & Marine Chemical Research Institute, Bhavnagar :—Investigation of production of pure salts, reduction in cost of production; economic utilisation of by-products of salt manufactures, development of new methods and technique for the recovery, production & utilization of various marine & allied chemicals.

Central Mining Research Station, Dhanbad :—Research in methods of mining, safety in mines and mine machinery.

Regional Research Laboratory, Hyderabad :—Research in problems relating to the industries and raw materials of the region.

Indian Institute of Experimental Medicine, Calcutta :—Research in various aspects of biochemistry as applied to medicine, bacteriology, etc.

Birla Industrial & Technological Museum, Calcutta :—A museum to depict scientific and technological advancement.

Regional Research Laboratory, Jammu-Tawi (Jammu & Kashmir) :—Research in problems relating to the industries and raw materials of the region & research specially directed to medicinal plants of the Himalayas (Kashmir Region).

Central Mechanical Engineering Research Institute, Durgapur (W. Bengal) :—Research in Mechanical Engineering in all its aspects. It maintains mechanical Engineering Research and Development Centres at Ludhiana, Poona and Madras.

Central Public Health Engineering Research Institute, Nagpur :—Research in all aspects of public health engineering and co-ordination of work of all interested agencies in this field in the country. A number of Field Centres and Units at various places have also been established by the Institute. The field centres are located at Sewage Farm Road, Ahmedabad and Dr. Annie Besant Road, Worli, Bombay.

National Aeronautical Laboratory, Bangalore :—Scientific investigations of the problems of flight with a view to their practical application to the design, construction and operation of aircraft in India.

Regional Research Laboratory, Jorhat :—Research problems relating to more efficient utilisation and better conservation of important national resources of Assam and surrounding areas with a view to aiding the industrial development of the region.

Regional Research Laboratory, Bhubaneswar :—Identification and exploration of problems of the region, bringing projects of potential local application to the attention of local industries and providing assistance to associated local industries in the testing of their products and quality control.

Central Indian Medicinal Plants Organisation, 4, Sapru Marg, Lucknow :—Co-ordination of activities in the development of cultivation and utilisation of medicinal plants and to develop the vegetable drug resources of the country. It has two zonal centres located at Bangalore and Haldwani (U.P.), and maintains four drug farms and factories in Jammu and Kashmir.

Central Scientific Instruments Organisation, Chandigarh :—Promotion and development of indigenous manufacture of scientific instruments for teaching, research and industry. Its service centres are located in New Delhi and Madras.

Indian Institute of Petroleum, Dehra Dun :—Research in petroleum refining and processing of natural gas, petro-chemicals, etc., and providing facilities for the training of personnel for oil and petroleum industries.

National Geophysical Research Institute, Hyderabad :—Gravitational, magnetic, electrical and seismic surveys for understanding the crustal structure of India and also study and improvement of methods and techniques of exploration.

National Institute of Oceanography, New Delhi :—Research on various aspects of physical biological, geological and chemical oceanography including prospecting for petroleum and minerals in sea bed. The Institute maintains Indian Biological Centre, Indian Ocean Physical Oceanographic Centre at Ernakulam. The International Biological Programme also functions at I.O.P.O. Centre, Ernakulam.

National Biological Laboratory (in planning), Palampur (Kangra Valley), Himachal Pradesh :—Both fundamental and applied research in modern aspects of biological sciences.

Structural Engineering Research Centre, Roorkee :—Research in specialised design and development work in structural problems connected with buildings, bridges and other structures.

Industrial Toxicological Research Centre, Lucknow :—To study the harmful effects of industrial toxins on skin, blood, gastro-intestinal tract, central nervous system, bones, etc.

Visvesvaraya Industrial & Technological Museum, Bangalore :—A museum to depict scientific & technological advancement.

Scientific and Technical Personnel :—The National Register maintained by the Directorate of Scientific and Technical Personnel, CSIR, is a clearing house of information regarding availability and utilisation of our scientists, engineers, technologists, medical personnel and social scientists in India and abroad. Based on

the data in the Register and on independent surveys, the Directorate carries out manpower research on the general and special characteristics of scientific and technical personnel, and their utilisation or wastage. Research reports are published periodically in the Technical Manpower Bulletin. These studies help formulation of scientific personnel policies, recruitment, and manpower planning.

The Council operates a Scientists' Pool. It provides temporary placement and employment assistance to highly qualified scientific and technical personnel, particularly those returning from abroad. Special studies on the characteristics of Indians with recent foreign training, and their subsequent utilisation are being made.

Publications and Information Directorate : A major publication of the Directorate is the Dictionary of Indian Raw Materials and Industrial Produce published under the "Wealth of India".

The Directorate also brings out periodicals: Journal of Scientific and Industrial Research, Indian Journal of Chemistry, Indian Journal of Pure and Applied Physics, Indian Journal of Technology (Monthly), Indian Journal of Experimental Biology, Indian Journal of Biochemistry, and Research and Industry (Quarterlies). Monographs on botanical and zoological topics and proceedings of symposia are among the other major publications.

A monthly journal entitled "Science Reporter" is brought out from 1964.

Documentation : The Indian National Scientific Documentation Centre (INSDOC), New Delhi established with technical assistance from UNESCO, provides a complete range of documentation services to individuals and institutions all over the country. *Publications* : Indian Science Abstracts (monthly) 1965 and Annals of Library Science and Documentation (Quarterly) 1954.

Sponsored Research : Through a liberal system of grants-in-aid, scientists in other technical institutes, industrial laboratories and universities are enabled to pursue fundamental and applied research and develop their own special fields. There are, at present, more than 720 such schemes in progress at more than 100 centres. Apart from the practical results achieved, the schemes provide opportunities of training of young research workers and develop centres of independent research. Junior and senior fellowships tenable in the universities as well as in national laboratories are also being awarded to talented young persons, besides financial aid to retired scientists. At present more than 1,220 such fellowships are tenable at universities, laboratories, and other research organisations.

Co-operative Research Associations : Co-operative research associations in different industrial fields are being assisted in their capital and recurring expenditure and by way of technical advice, preparation of plans and procurement of experts and materials. Ten such associations now functioning are catering to the textiles, rubber, silk, art silk and paint, plywood, wool, tea and cement industries. Similar associations are in the process of being formed for foundry automobile, radio and electronic industries.

Liaison & Extension Services : Active Industrial Liaison & Information Units have been set up in most of the National Laboratories to make direct contact with the industry, trade associations and users of research to identify the problems of industry and formulate them into research projects for the laboratories.

NUCLEAR RESEARCH AND ATOMIC ENERGY

The Tata Institute of Fundamental Research is the National Centre for advanced study and fundamental research in nuclear physics and mathematics and consists of a school of physics and a school of mathematics.

The Institute is the largest centre for cosmic ray research in India. Its nuclear emulsion group for the study of elementary particles is one of the largest in the world. The Institute also houses, as a national facility, an advanced and modern computer CDC 3600-160A. It also has a IMeV Cascade Generator. A high resolution radiotelescope for solar studies has been installed at Kalyan, near Bombay.

A large cylindrical radiotelescope being constructed at Ootacamund will be used for lunar occultation studies of radio sources.

Two other important institutions conducting research in nuclear physics are the Saha Institute of Nuclear Physics, Calcutta and the Physical Research Laboratory, Ahmedabad.

A high altitude research laboratory is functioning at an altitude of 9,000 ft. at Gulmarg in Kashmir. A similar laboratory is being established at Kodaikanal.

Two other units under the administrative control of the department are the Radiation Medicine Centre and the Tata Memorial Centre in Bombay.

Considerable fundamental research in nuclear science and cosmic rays is also being conducted at various universities and research institutions all over India with financial assistance from the Department of Atomic Energy. During 1968-69 a sum of Rs. 12.50 lakhs was sanctioned as assistance.

The development and control of atomic energy in India is regulated by the Atomic Energy Act (Act No. 33 of 1962) and the Department of Atomic Energy handles all business of the Government of India relating to atomic energy and functions of the Central Government under the Act.

The Atomic Energy Commission is responsible for (a) formulating the policy of the Department of Atomic Energy, (b) preparing the budget of the Department for each financial year and getting it approved by the Government, and (c) implementing Government's policy in all matters concerning atomic energy.

The scientific and technical work of the Department is carried out by the Atomic Minerals Division and the Bhabha Atomic Research Centre at Trombay near Bombay.

Some of the more important functions of the Atomic Minerals Division are: (a) geological survey for and development of atomic minerals, (b) geographical survey, (c) geochemical survey, (d) mineral technology, (e) drilling, (f) mining, (g) stockpiling, (h) conservation of minerals and (i) technical assistance and training.

Bhabha Atomic Research Centre, Trombay

The Bhabha Atomic Research Centre (BARC), is India's principal centre for research and development in the field of atomic energy.

The work of BARC is organised under six major groups, viz. Physics, Engineering, Electronics, Metallurgy, Bio-medical and Administration. Each group is under the charge of a Director and comprises three or more divisions. There is also a directorate of Radiation Protection.

Every year about 150 science graduates and engineers are recruited and given intensive training for one year to be absorbed in the various projects of the Atomic Energy Department.

Research Facilities: Besides the reactors the following principal facilities exist: (1) A 5.5 MeV Van de Graaff accelerator, (2) Mass spectrometers, (3) A 200 kv electron diffraction camera fabricated in the Establishment, (4) A slow chopper built in the Establishment, (5) A mechanical monochromator built in the Establishment, (6) Crystal spectrometers and a double crystal spectrometer, (7) Spectrometers including double beam and vacuum grating ones, (8) Plasma torch built at Trombay, (9) Cloud chambers, (10) Magnetometers, (11) Various types of electronic instruments, (12) a multi-arm spectrometer built at Trombay, (13) Electro-magnetic isotope separator, (14) Experimental Electroliser to produce very pure hydrogen, (15) Various instruments used in chemical analysis such as fluorimeters, polarimeters, spectro-photometers, calorimeters etc., (16) Freeze drying units for units for blood plasma etc., etc.

A 400-channel nuclear data processor has been built. There are a Seismic Station at Gauribadanur near Bangalore to detect underground nuclear explosions and a Gamma Garden at Trombay for carrying out investigations and studies on induction of mutations in plants.

The Radiation Medicine Centre is now adopting most of the recognized methods for the diagnosis and treatment of diseases with the aid of radioisotopes.

Production Facilities: (1) Uranium Metal Plant & Thorium Plant, (2) Fuel Element Fabrication Plant, (3) Radioisotope Production Facilities, (4) Heavy Water Pilot Plant, (5) Heavy Water Reconciliation Plant, (6) Plutonium Plant, (7) Electronic Instruments, (8) Vacuum equipment, mass spectrometers etc., etc. The Electronics Corporation of India has been set up at Hyderabad for the commercial exploitation of electronic equipment developed at Trombay.

INDUSTRIAL OPERATIONS

Electronics Corporations of India Ltd., Hyderabad: It took over the activities of the Electronics Production Unit of the Bhabha Atomic Research Centre with a view to producing on a commercial scale a variety of nuclear instruments, control panels, etc. developed at B.A.R.C.

Rare Earths Plant, Alwaye and Thorium Plant, Trombay: See under "Government Industrial Undertakings".

Minerals Division: The Company conducts the operation of the mineral sand industry which was being run by Travancore Minerals Ltd.

Uranium Ore Mill: A uranium mill with a capacity to treat 1,000 tonnes of uranium ore per day is in operation at Jaduguda in Bihar. The process employed was developed in the B.A.R.C. at Trombay.

Uranium Corporation of India Ltd.: This company's registered office is in Jaduguda, Bihar. It is responsible for developing the uranium mine and for the operation of the Uranium Mill at Jaduguda.

Mineral Sand Industry: Indian Rare Earths Ltd. is currently operating two plants in Manavalakurichi (on the West Coast of Tamil Nadu) for the separation of ilmenite, monazite, rutile and zircon.

Uranium Metal Plant: This plant has an annual capacity of about 30 tonnes of nuclear grade uranium. A process for the production of ceramic grade uranium

dioxide has been successfully developed on the basis of which design of a 250 tonnes uranium oxide plant has been completed.

Heavy Water Reconciliation Plant: The plant is designed for the reconciliation of down-graded heavy water.

A small scale electrolyser assembly for reconciliation of down-graded heavy water has also gone into operation.

A pilot plant for producing enriched Boron-10 used in neutron counters has been designed, fabricated and installed at Trombay.

Heavy Water Plant: The first Heavy Water Plant in Asia designed to produce 15 tonnes of heavy water annually in conjunction with the Fertilizer Corporation of India's Nangal Unit has started producing nuclear grade heavy waters.

ATOMIC MINERALS

The Atomic Minerals Division of the Department of Atomic Energy has been engaged in country-wide exploration, prospecting and development of atomic minerals, particularly those of uranium, thorium, beryllium, columbium-tantalum, lithium, etc.

As a result of the investigations carried out, several uranium occurrences of variable grade, size and importance have been located in different parts of the country, the major deposits being those at Jaduguda, Narwapahar and Bhatin in the Singhbhum Copper Belt of Bihar. Favourable indications of uranium recently located in the Himalayan region in Kulu, Rampur-Bushahr and Garhwal, are currently under investigations.

The coastal tracts of India, together with several island areas, particularly those of Ranchi (Bihar) and Purulia (West Bengal) are sources of large amounts of monazite and provide India with the largest thorium deposits in the world. Indian monazite contains 8 to 10 per cent ThO_2 and upto 0.3 per cent U_3O_8 . Total reserves of monazite are estimated at some 5 million tons with ThO_2 content of 0.45 million tons and U_3O_8 content of 15,000 tons.

Ilmenite, which is associated with monazite, forms reserves of about 100-150 million tons, of which 65.32 million tons are measured reserves, the rest accounting for indicated and inferred reserves. Reserves of zircon, which is also found in association with monazite-bearing sands, are estimated at about 10 million tons, of which 3.34 million tons constitute measured reserves and the rest indicated and inferred reserves.

Intensive prospecting has also led to the location of several new occurrences of beryllium, columbium-tantalum and lithium minerals, in addition to those already known in the mica belts of Bihar, Rajasthan, Madhya Pradesh and Andhra Pradesh, besides smaller ones in Tamil Nadu and Mysore.

The Division also helps private parties including universities and institutions interested in prospecting and mining atomic minerals by providing technical advice, loan of G.M. counters, analysing samples free of charge and by extending such other help as would promote and widen the field of exploration.

NUCLEAR REACTORS

Apsara: The first nuclear research reactor in Asia, outside the USSR, attained criticality on August 4, 1956. It is an enriched uranium light water moderated and cooled pool type reactor. The reactor is designed for a maximum power level of 1 MW.

A number of experimental facilities have been provided in the reactor which has proved to be extremely useful for fundamental and applied research in basic sciences and engineering, radioisotope production and training of personnel.

The first fuel charge was removed from the reactor in December, 1964 since it had attained its maximum burn-up. Maintenance of various reactor components as well as improvements in cooling and control systems, were carried out in the first quarter of 1965. The reactor was started up with the second charge of fuel elements—also hired from United Kingdom—in June 1965.

The standard element of second fuel charge contains 140 gms. of U-235 (80 per cent enriched uranium). For normal operation the reactor core contains about 25 fuel elements.

Cirus: (formerly known as CIR) is India's second research reactor, built as a joint Indo-Canadian project under the Colombo Plan. The reactor attained criticality on July 10, 1960. The total cost of the project is approximately Rs. 10 crores, being shared in roughly equal proportions by the two countries.

Cirus is a natural uranium heavy water moderated and light water cooled high flux research reactor with a terminal power of 40,000 KW. It is operated round the clock. The reactor is used for basic and applied research in physics, chemistry, biology, metallurgy and reactor technology, for the production of large quantities of high activity radioisotopes as well as plutonium-239 and uranium-233 and for the training of personnel for future reactor programmes.

The standard fuel rod contains about 55 kg. of natural uranium. For normal operation the reactor core contains about 185 fuel rods and 20 tonnes of heavy water.

Zerlina: Is India's third research reactor. It is a zero energy reactor for lattices investigations and new assembly studies. The reactor attained criticality on January 14, 1961 with a natural uranium—heavy water loading. The reactor is operated on a two shift basis upto a maximum power of 100 W and is being extensively used for physics and studies of uranium—heavy water lattices.

The standard fuel rod contains about 45 kg. of natural uranium. The standard core contains 80 fuel rods and about 8 tonnes of heavy water.

The natural uranium fuel elements of CIRUS and ZERLINA are fabricated in Trombay.

Directorate of Radiation Protection

Under the Department of Atomic Energy is responsible for country-wide radiation safety.

A country-wide film badge service is being conducted by the Directorate for persons working with radiation sources. The Service now covers nearly 1,100 institutions. It is expected that the film badge service, radiological protection surveys and prior approval of plans for radiation installations will be made compulsory in the near future.

The Directorate conducts (i) a one year postgraduate course in radiological physics; and (ii) four short-term courses every year on the industrial, medical and other applications of radiation and the associated safety aspects. It does research and development in fields such as hospital physics, radiation dosimetry and instrumentation, radiation applications and radiation bio-physics. It is also responsible for the formulation and promulgation, under the Atomic Energy Act, of various rules and regulations relating to radiation safety.

Fuel Element Fabrication Facility

It went into operation in June 1959. The entire charge of fuel elements used for CIRUS and for ZEPLINA was fabricated here. The present capacity of this plant is about 30 to 40 tonnes of fuel elements per year.

It has been decided to set up at Hyderabad an industrial plant for the fabrication of fuel elements for power reactors. A good deal of development work has been carried out in the existing facility at Trombay for the fabrication of power reactor fuel elements, which consists of sintered uranium oxide pellets clad in the zircaloy.

Central Workshops

A manufacturing facility for the production of specialised equipment and apparatus required for the country's nuclear research and development programme has been set up at Trombay at an approximate cost of Rs. 2.3 crores. The value of routine work-load on these shops is expected to be over Rs. 50 lakhs a year excluding work-load on major projects and large scale fabrication of prototype equipment and experimental set ups. The workshops have already started fabrication equipment for the Rajasthan Atomic Power Project. Similar fabrication is being undertaken for other projects, resulting in savings in cost and foreign exchange. The first batch of three Centaur rockets has been fabricated and despatched to Thumba. The workshops when in full operation will also expedite development work.

Graphite Shop

This is a facility set up for the purpose of machining graphite of grades of nuclear purity. This shop has undertaken during the course of the last few years the machining of over 300 tons of graphite required for the three reactors viz., APSARA, CIRUS and ZERLINA besides numerous other works such as graphite moulds, crucibles and other components required by the various Divisions of the Trombay Establishment for their research and development work.

Radiochemistry Laboratory

This laboratory is equipped with the most modern facilities for handling plutonium and other higher radioactive elements. Research on various aspects of the fission of heavy elements is being carried out using radio-chemical techniques. Fission product isotopes are being supplied to various customers. A large number of scientists from the establishment as well as outside institutions including those from outside India have been trained in radiochemical techniques.

Isotope Laboratory

This Laboratory is responsible for the production and processing of radio-isotopes like iodine-131, phosphorus-32, chromium-51, iron-59 etc. The laboratory has also facilities for the production of radiopharmaceuticals required for diagnostic purposes in nuclear medicine, and for the production of organic compounds labelled with carbon-14 and tritium. Facilities have been provided for the fabrication of multicurie sealed radiation sources of cobalt-60 and irridium-192 required for industrial use and also for development work connected with the applications of radioisotopes to industrial problems such as gamma radiography, siltation studies, etc. During 1968 the sale value of isotopes, equipment and services rendered totalled nearly Rs. 22 lakhs including Rs. 2.59 lakhs in export.

Plutonium Plant

The irradiated fuel contains a small amount of plutonium, a valuable nuclear material along with a large

quantity of radioactive fission products. Investigations have been conducted on the separation of plutonium from the irradiated fuel. A plant has been built at Trombay for treating primarily the natural uranium fuel rods irradiated in CIRUS for recovering plutonium from them.

A bigger reprocessing plant being built at Tarapur is expected to be completed by the end of 1973.

Electronic Instruments and Components

The Electronics Division of Trombay Establishment has designed, developed and fabricated a variety of nuclear and industrial instruments which include Geiger Counters, Radiation Survey Meters, Contamination Monitors, High and Low Voltage Units, Scalers, Single Channel Analysers, Pulse Amplifiers, PH Meters, Electronic Multimeters, Oscilloscopes, Strain Gauge Amplifiers, Magnetic Amplifiers, Servo Amplifiers, Moisture Gauges, Density Gauges, Analog computer, Medical Spectrometers and Counting Systems, for use in the Trombay Establishment, Universities and Colleges and Medical Institutions using radiation sources and also for use of the Tarapur Atomic Power Station.

The Division has also produced High Stability Film Resistors. The Division produced electronic instruments worth Rs. 11 lakhs in 1968. A computer facility built around H-400 Honeywell system has been set up.

Tarapur Atomic Power Station

The 380 MWE station at Tarapur is expected to be on full power operation by the end of July 1969. The station will consist of two reactors of the boiling water type, and is being built by the General Electric Company of the U.S.A. under a turn-key contract, on the basis of specifications provided by the Tarapur Atomic Power Project of the Department of Atomic Energy. The power station became critical at 8-37 a.m. on Feb. 1, 1969. Nuclear power began to flow from the station when it became operational at 8-15 p.m. on April 1, 1969.

Rajasthan Atomic Power Project

The first unit of the station is expected to be in commercial operation by early 1971. The second unit, also of 200 MW is expected to be commissioned by 1973.

Madras Atomic Power Project

Preliminary civil works of the station, which will consist of two reactors of 206 MW(e) each, is proceeding at Kalpakkam.

SPACE RESEARCH

The Thumba Equatorial Rocket Launching Station (TERLS) has been established near Trivandrum, Kerala, by the Indian National Committee for Space Research (INCOSPAR) of the Department of Atomic Energy. The rocket launching facility became operational on Nov. 21, 1963 when the first Nike-Apache Rocket carrying a Sodium Vapour Payload was fired.

Since then, 42 experimental rockets have been fired. The scientific programme at TERLS is conducted on the basis of bilateral collaborative agreements between India and France, the USA and the USSR. The objective of the programme is to provide better understanding of problems of Equatorial Aeronomy including meteorology, particularly in the region up to 170 km.

There is a Satellite Telemetry Station in operation, since 1961, at the Physical Research Laboratory, Ahmedabad. Currently, it is monitoring X-ray data from NRL Solar Radiation Satellite. It is also participating in a world-wide programme of ionospheric studies with S-66 ionospheric beacon satellites.

Satellite Communication Station

The Government of India in the Department of Atomic Energy in collaboration with the United Nations has set up an Experimental Satellite Communication Earth Station at Ahmedabad in the area known as Jodhpur Tekra for the purpose of research and training in communications *via* satellites.

The Station went into operation in August 1967. There is a College of Satellite Communication Technology attached to the station.

The Department of Atomic Energy is building a Commercial Satellite Communications Earth Station at Arvi near Poona for the Overseas Communications Service. The station is expected to be completed around October 1969.

OTHER RESEARCH BODIES

Mineral Research : 1. *Geological Survey of India*, Calcutta maps out the mineral resources of the country. 2. *The Indian Bureau of Mines* and *The Mineral Information Bureau* at Delhi help in the prospecting and working of minerals. 3. *The Oil and Natural Gas Commission* is responsible for the prospecting and exploitation of mineral resources.

Animal and Plant Research : 1. *The Botanical and Zoological Surveys* both in Calcutta conduct systematic surveys of the animal and plant resources of the country. 2. *The Bose Research Institute* in Calcutta conducts research in physics, chemistry, zoology and plant breeding. 3. *The Birbal Sahani Institute* at Lucknow carries on research in plant fossils.

Map Research : 1. *The National Atlas Organisation* in Calcutta does cartographic work. 2. *The Survey of India* with its headquarters at Dehra Dun is engaged in large-scale mapping of river basins and in the preparation of topographical maps.

Meteorological Research : *The Meteorological Department* of the Government of India at Delhi and Poona are concerned with meteorological, climatological, hydrometeorological and snow surveys.

Anthropological Research : *The Department of Anthropology* in Calcutta is concerned with ethnographic surveys and a variety of other studies in anthropology.

Physical and Chemical Research : *The Indian Association for the Cultivation of Science* in Calcutta is engaged in physical and chemical research, both in its theoretical and applied aspects.

Research in Radio Physics, Mathematics and Electronics : *The Indian Institute of Radio Physics and Electronics* in Calcutta conducts research in radio physics and electronics while research in cosmic rays and theoretical physics is carried out at the *Physics Research Laboratory* in Ahmedabad. *The Institute of Mathematical Sciences* at Madras carries on research in mathematics, applied mathematics and theoretical physics.

ENGINEERING RESEARCH

The Indian Standards Institution at New Delhi lays down specifications for materials, tools and products.

Among engineering institutions providing facilities for research the following may be mentioned :

All India Institute of Hygiene and Public Health, Calcutta : Sanitary engineering.

Central Building Research Institute, Roorkee (U.P.) : Building engineering, prestressed concrete engineering, etc.

Central Electronics Engineering Research Institute, Pilani (Rajasthan) : Electronics and telecommunication engineering.

Central Mechanical Engineering Research Institute, Durgapur (W. Bengal) : Mechanical engineering.

Central Public Health Engineering Research Institute, Nagpur : Public Health and sanitary engineering.

Central Road Research Institute, New Delhi : Road engineering.

Concrete Research Laboratory, Chepauk, Madras : Structural engineering.

Indian Institute of Science, Bangalore : Aeronautical engineering, internal combustion engines, and power, hydraulic and electrical communication engineering.

National Aeronautical Laboratory, Bangalore : Aeronautical engineering.

Indian School of Mines and Applied Geology, Dhanbad : Mining engineering.

M. S. University, Baroda : Civil, mechanical and telecommunication engineering.

P.S.G. & Sons, Charities College, Coimbatore : Civil, mechanical and electrical engineering.

Government College of Technology, Coimbatore : Heat engineering, hydraulic engineering, soil mechanics.

Indian Institute of Technology, Kharagpur : Mechanical engineering.

Madras Institute of Technology, Madras : Aeronautical and automobile engineering and soil mechanics.

University College of Science and Technology, University of Calcutta : Heat and Illumination engineering.

A number of Ministries and Departments of the Government of India have development and research sections in engineering.

The Indian Agricultural Research Institute, New Delhi has a Division of Agricultural Engineering which is concerned with agricultural equipment.

The Ministry of Communications has a Research and Development Directorate which sees to the specifications, certification and manufacture of aircraft and aircraft material.

The Ministry has a Telecommunications Research Centre in Delhi.

The Technological Development Wing of the Ministry of Industries offers advice on engineering equipment in general and more especially on machine tools and internal combustion engines.

The Central Board of Irrigation and Power conducts eleven research stations the chief of which are in Poona, Amritsar and Poondi (Tamil Nadu State). The one at Khadakvasla near Poona is the most important. It conducts research in hydraulic engineering, soil mechanics, concrete materials and navigation.

The All India Radio has a research unit of its own in New Delhi.

The Railway Board has centres in Lucknow, Lonavla and Chittaranjan to investigate problems connected with railways.

Research projects connected with roads, bridges, ports, harbours are taken up for investigation by the Roads Organization under the Ministry of Transport.

It may be added that two Power Engineering Research Organizations in Bangalore and Bhopal, are being set up with the assistance of the U.N. Special Project Fund with UNESCO acting as the executive agency.

MEDICAL RESEARCH

Medical research is conducted chiefly under the auspices of the Indian Council of Medical Research, New Delhi. The Council also grants research fellowships. There is a Scientific Advisory Board which deals with technical questions and publishes reports of research carried on under the auspices of the Council.

The more prominent research institutions in medicine are :

School of Tropical Medicine, Calcutta : Diseases peculiar to tropical climate.

All India Institute of Hygiene and Public Health, Calcutta : Preventive and social medicine.

Indian Cancer Research Centre, Bombay : Cancer.

Vallabhbhai Patel Chest Institute, Delhi : Tuberculosis and diseases of chest.

Central Leprosy Teaching and Research Institute, Tirumani (Chingleput) : Leprosy.

Haffkine Institute, Bombay : Plague, malaria, virus diseases, nutrition. It also manufactures vaccines and sera.

Central Research Institute, Kasauli : Microbiology, biochemistry, seriology.

Pasteur Institute, Coonoor : Rabies, influenza, tropical eosinophilia, anti-venom serum, serological reactions.

King Institute of Preventive Medicine, Guindy, Madras : Vaccines, specially against smallpox and therapeutic sera.

Bengal Immunity Research Institute, Calcutta (Private) : Prevention, control and cure of disease, and anti-malaria drugs.

Central Drug Research Laboratory, Calcutta : Biological and chemical assays of drugs. It also gives technical advice to drug manufacturing firms.

Drug Research Laboratory, Jammu : Research in medicinal plants. Has two farms. Promotes standardization of indigenous drugs.

Virus Research Centre, Poona : Virus-caused diseases.

Central Drug Research Institute, Lucknow : Work on drugs.

National Institute of Communicable Diseases, Delhi : Malaria.

Cholera Research Centre, Calcutta : To study various aspects of Cholera.

Nutrition Research Laboratories, Hyderabad : Nutrition and allied subjects.

Tuberculosis Chemotherapy Centre, Madras : Research on Tuberculosis.

Indian Registry of Pathology, New Delhi : Reservoir of original case material and supply of teaching material for Medical Colleges in India.

Occupational Health Research Institute, Ahmedabad : Research on problems relating to occupational health.

The Indian Council of Medical Research initiates research in a large number of specific problems at medical colleges and hospitals in the country including the institutions mentioned above.

SOCIAL WELFARE IN INDIA

AT present there are 26 Schools of Social Work in India. There is also an Association of Schools of Social Work. The alumni from the schools of social work have formed a professional association namely the Indian Association of trained social workers. Most of the schools provide post-graduate training programme.

The Indian Council of Social Welfare is an apex voluntary organization which brings together voluntary and professional workers, national and state welfare agencies either in the state or private sector. The Council has 17 branches all over India.

There are the Ministry of Social Welfare at the Central Government level and the State Department of Social Welfare.

Social Welfare generally covers the following fields, viz. Community Welfare Services ; Family, Child and Youth Welfare Service ; Public Welfare Administration ; Social Security Services ; Services for the Maladjusted and Handicapped Groups ; Social Defence and Correctional Administration ; Social Legislation and Social Action ; Social Research ; Training in Social Work ; Tribal Welfare and Rural Reconstruction ; Social Work Research ; Programme for Economic Uplift of Weaker Sections of the Community etc.

A number of all India agencies organise all India, regional or state meetings to discuss specialised topics. The Indian Council of Social Welfare holds a biennial

conference and a biennial seminar with all India participation. In 1969 a seminar on "Role of Social Welfare at Local Authority Level" was held at Delhi in February-March 1969 in collaboration with the Delhi School of Social Work and Indian Council of Social Welfare.

Funds for research in social work are available from the Research Programmes Committee of the Planning Commission, the Dept. of Social Security and the University Grants Commission, as well as other foreign bodies such as the U.S.A.I.D. The Indian Council of Social Welfare completed two research projects (i) Survey of Employment Positions and Functions of Professional Social Workers and (ii) Evaluation of Institutional Programme in relation to After Care of Released Children under the Bombay Children Act (1948). A third project on "Rehabilitation of Children other than Delinquent under the Bombay Children Act (1948) is being carried out, with the help of U.S. Health, Education and Welfare Department.

SOME ALL-INDIA ACTS

The Special Marriage Act, 1954 ; The Hindu Marriage Act, 1955 ; The Hindu Succession Act, 1956 ; The Hindu Adoption and Maintenance Act, 1956 ; The Hindu Minority and Guardianship Act, 1956 ; The Maternity Benefit Act, 1961 ; The Children Pledging of Labour Act, 1933 ; The Employment of Children Act, 1938 ; The Reformatory Schools Act, 1897 ; The Lepers Act, 1898 ; The Indian Lunacy Act, 1912 ; The Untouchability Offences Act,

1955; Suppression of Immoral Traffic in Women and Girls Act, 1956; The Women's and Children's Institutions Licensing Act, 1956; The Orphanages and other Charitable Institutions Supervision and Control Act, 1960; The Probation of Offenders Act, 1958; The Union Territories Children's Act, 1960.

FAMILY AND CHILD WELFARE

At the end of the Third Plan, there were 264 welfare extension projects for women and children functioning in coordination with community development, 306 welfare extension centres run by recognised voluntary organisations and 1,472 welfare extension services run by registered Mahila Mandals. There were also 17 integrated child welfare projects in progress in the States. About 6,000 voluntary organisations have received grants-in-aid through the Central and State Social Welfare Boards for providing specific welfare services to women and children and to handicapped persons. About 625 condensed courses in education and 75 production units were instituted in urban areas for the benefit of women. The Central Social Welfare Board also set up 66 urban welfare extension projects. A number of night-shelters were also organised. Programmes in moral and social hygiene and after-care services were started at 16 institutions. For the rehabilitation of handicapped persons 27 training-cum-home centres were established.

TRAFFIC IN WOMEN

The Suppression of Immoral Traffic in Women and Girls Act 1956 applies to the whole of India.

From the time the Act was enforced on May 1, 1958 to March 1960 the Central Social Welfare Board set up 68 protective homes in the country.

The Central Social Welfare Board appointed an Advisory Committee to study the problem of social and moral hygiene in the country. The recommendations of the committee were accepted and institutions were set up on the pattern described below.

At the State level: (i) One home for rescued women needing a fairly long period of adjustment prior to rehabilitation. (ii) Two homes for the aftercare of persons discharged from correctional institutions. (iii) Two short term rehabilitation homes for those discharged from non-correctional institutions. (iv) Strength of each Home not to exceed 100. At the District level: (i) One shelter temporarily housing persons needing aftercare (maximum period 3 months). (ii) One reception centre for temporary stay of women rescued from moral danger.

The Association for Moral and Social Hygiene in India, 4, Rouse Avenue, New Delhi, has got fourteen State Branches with a number of Dist. Branches.

The Association runs a Student Counselling Centre in the University of Delhi. Centres for Family Counselling and Marriage Guidance are established in the other parts of the country. It also conducts periodical research.

Children

Children's Acts in relation to delinquency are in force in the States of Andhra Pradesh, Gujarat, Maharashtra, Tamil Nadu, Mysore, Punjab, Kerala, U.P., West Bengal and all Union Territories.

The Borstal Schools Acts, which are slightly different in scope, are in operation in the States of Andhra, Gujarat, Madhya Pradesh, Maharashtra, Tamil Nadu, Mysore, U.P., West Bengal and Kerala.

The Reformatory Schools Act of 1897 has also been enforced in all the major States and some Union Territories.

The problem of juvenile delinquency is mainly the concern of State Governments.

The Central Bureau of Correctional Services was established in August 1961 with the aim of developing and co-ordinating a uniform policy to standardise the collection of statistics on a national basis. It exchanges information with foreign governments and the United Nations Agencies. It promotes research, training and studies and surveys in the field of prevention of crime. The Central Government have sponsored a care programme under which assistance is given to the States. Under this programme, 40 remand homes, 17 certified schools, 5 Borstal schools, 15 boys' clubs and probation hostels have been established. In addition to these, there are private institutions, as well as those existing prior to the operation of the above programme.

The Model Children Act provides for establishment of Child Welfare Boards and Juvenile Courts. The child welfare board deals with destitute and neglected children while the juvenile courts are expected to deal with the delinquents. But this procedure is not being followed in all the states. In Maharashtra there is a comprehensive Children Act. In all the States, where the Children Act is applied, Remand Homes, Certified Schools and After-Care Hostels are established. In some States, Remand Homes are also termed as observation homes. Under preventive programme, Juvenile Aid Police Units are established through the Police Departments and Boys' Clubs are also run. Pilot programme for the prevention of Juvenile Vagrancy is recently undertaken.

Under the Children's Act, more children come under its purview as a result of destitution than delinquency.

A new trend in Child Welfare is the development of foster family homes, which provide emotional and social security for children in need of such home on a temporary basis. This is being promoted by the Central Social Welfare Board, through voluntary welfare agencies in Bombay, Madras and Delhi. Families caring for such children are usually given a small sum for maintenance of the children.

Beggars

The Criminal Procedure Code treats vagrants and vagabonds alike and provides penalties under Sections 55 (i)(b) and 109(b).

Beggars may be proceeded against under Section 133 as those committing public nuisance.

Beggary within railway premises was prohibited by law as from February 15, 1941.

Special Acts have been passed by most of the States to prohibit begging in public places. In others, the municipal and police Acts provide measures against begging.

To deal effectively with persons who kidnap children for the purpose of exploiting them for begging, the Indian Penal Code (Amendment) Act, 1959, was enacted. The Act makes kidnapping or obtaining custody of a minor and the maiming of minors for the purpose of begging specific offences and provides deterrent punishment, which may extend to life imprisonment where children are maimed.

There are institutions in the States for the custody, care and assistance of beggars in their rehabilitation.

SOCIAL SERVICE AGENCIES

The groups of voluntary social work in India largely fall under the following heads: Administrators; Professional social workers; Missionaries; The Gandhian social workers; and voluntary social workers belonging to the various private agencies.

Of these the religious believe in the traditional form of charity, the Missionaries in institutionalised social work and Gandhian in the 14-point constructive programme.

The Indian Council of Social Welfare has started a Volunteer Bureau to recruit volunteers willing to do social work and to find suitable agencies which can absorb these volunteers.

Schools of Social Work

The Tata Institute of Social Sciences, Sion-Trombay Road, Chembur, Bombay-71; The Delhi School of Social Work, University of Delhi, 3, University Road, Delhi 7; The Madras School of Social Work, Casa Major Road, Egmore, Madras 8; Faculty of Social Work, M. S. University of Baroda, Fatehgunj, Baroda-2; Department of Social Work, Lucknow University, Lucknow; Institute of Social Sciences, Kashi Vidyapith, Varanasi, The Indian Institute of Social Welfare & Business Management, College Square West, Calcutta 7; The Institute of Social Service, Nirmala Niketan, 38 New Marine Lines, Bombay 1; The Bombay Labcur Institute, Dadabhai Chamarbaughwala Road, Parel, Bombay 12; The P. S. G. School of Social Work, Peelamedu P.O., Coimbatore; The National Institute of Social Sciences, 24 Willington Road, Richmond Town, Bangalore; The Institute of Social Services, School of Social Work, Mangalore; St. Xavier's Institute of Labour Relations, Jamshedpur; Institute of Social Sciences, University of Agra, Agra; The Department of Sociology and Social Work, Andhra University, Waltair; Department of Labour and Social Welfare, Patna University, Patna; University School of Social Sciences, Gujarat University, Ahmedabad; The School of Social Work, Indore Christian College, Palasia, Indore; The Udaipur School of Social Work, Saletia Ground, Udaipur; The Department of Social Work, Sacred Heart College, Thervara, Ernakulam 3, Kerala; The Xavier Institute of Social Services, St. Xavier's College, Ranchi, Bihar.

Schools for teaching Social Work at the undergraduate level, are slowly opening up—such as the Karve Institute of Social Services in Poona. Andhra Pradesh School of Social Work, Red Hills, Hyderabad 4 at the undergraduate level—by the Andhra Pradesh State Branch of Indian Council of Social Welfare.

An association of schools of social work has been formed which is setting up criteria for accredited schools of social work. Over and above the professional schools of Social Work, there are various other training centres run by voluntary bodies for training welfare workers. Training schemes for training workers for particular programmes are also being undertaken by the Govt. in cooperation with voluntary welfare agencies.

Voluntary Agencies on National Level

Child Welfare: Balkan-ji-Bari (Juhu Road, Santa Cruz (West), Bombay 54), Indian Council for Child Welfare, Room No. 14-15, Block 'A', 'B' Barracks, Queensway, New Delhi, Indian Council for Child Education, Sumanas, 39, Edward Elliotts Road, Madras 4.

Youth Welfare: Y.M.C.A. (5, Russel Street, Calcutta 16); Y.W.C.A. (Parliament Road, New Delhi); Bharat Scouts and Guides Association (Regal Building, Parliament Street, New Delhi); Bharat Sevak Samaj (27-A, Theatre Communication Buildings, Connaught Place, New Delhi); Youth Hostels Association (2, East Park Road, New Delhi 5); All India Boys Scouts Association (7, Jungpura—B—Mathura Road, New Delhi 14).

Women's and Family Welfare: All India Women's Conference (C/o Family Planning Association of India, Metropolitan House, Dadabhoy Naoroji Road, Bombay 1);

Family Planning Association of India (Metropolitan House, Dadabhoy Naoroji Road, Bombay 1); National Council of Women in India (Town Hall, Bombay 1); Kasturba Gandhi National Memorial Trust (Kasturba Gram, P.O. Indore, Madhya Pradesh).

Health: Tuberculosis Association of India (20, Red Cross Road, New Delhi 2); Indian Red Cross Society (20, Red Cross Road, New Delhi 2); All India Cancer Prevention Society (Tata Memorial Hospital, Parel, Bombay 12); Hind Kusht Niwaran Sangh (Red Cross Road, New Delhi); Akil Bharat Sharirik Sikshan Maha-Mandal (Tilak Road, Nagpur, Maharashtra); Indian Medical Association (Hanging Bridge, Daryaganj, Delhi 7).

Rehabilitation of the Handicapped: Convention of the Teachers of the Deaf in India (50, Bondel Road, Ballygunj, Calcutta); All India Lighthouse for the Blind (89, Elliot Road, Calcutta); National Association for the Blind (Jehangir Wadia Building, Mahatma Gandhi Road, Bombay 1); All India Blind Relief Society (11-F, Lajpatnagar, New Delhi); The Fellowship of the Physically Handicapped, Hornby Vellard, Haji Ali Park, Bombay-34; The Indian Council for Mental Hygiene (Cumbatta Chambers, Eros Building, 42, Queen's Road, Bombay).

Rural Welfare: Sarva Seva Sangh (K33-4 Golghar, Varanasi, U.P.); India Village Service (I.V.S. House, Marhera, Dist. Etah, U.P.).

General Social Welfare: Servants of India Society (Poona 4); Ramkrishna Mission (Belur, Dist. Howrah); Gandhi Memorial Fund (5, Mansingh Road, New Delhi); Salvation Army (Moreland Road, Bombay 8); Friends' Service Unit (1, Upperwood Street, Calcutta 16); All India Seva Samiti (Seva Samiti Building, Allahabad).

Rural Women's Welfare: Bharatiya Grameen Mahila Sangh (9/104 Jamnabar Hutments, Block II, Mansingh Road, New Delhi 11).

Relief and Rehabilitation: United Council of Relief and Welfare (Rashtropati Bhavan, New Delhi).

Social Education: Indian Adult Education Association (17-B, Indraprastha Marg, New Delhi); Jamial Milia (Okhla, Delhi); Literacy House (Lucknow).

Welfare of Under-Privileged Groups: Harijan Sevak Sangh (Kingsway, Delhi); Bhartiya Adimjati Sevak Sangh (Kingsway, Delhi 9).

Co-ordination: The Indian Conference of Social Work (Central Office: 117, D. N. Road, Bombay 1).

International Welfare Agencies in India: The following are some of the International agencies and organisations working in the country: International Council on Welfare (Regional Office for South East Asia and Western Pacific, 175, D. N. Road, Bombay 1); Asia Foundation (Post Box 149, New Delhi); Ford Foundation (32, Ferozeshah Road, New Delhi); World Health Organisation (S.E.A. Office, Patiala House, Hardinge Avenue, New Delhi); Rockefeller Foundation (20/39, Diplomatic Enclave, Kautilya Marg, New Delhi); International Labour Organisation, Indian Branch (Mandi House, New Delhi); International Union for Child Welfare (Consultant for Far East Asia, Rooms Nos. 14 & 15, Block A, Barracks B, Queensway, New Delhi); United Nations International Children's Emergency Fund (UNICEF House, 11, Jer Bagh, Delhi); United Nations Educational, Scientific and Cultural Organisation (Old Mill Road, New Delhi); Food and Agricultural Organisation, UNO (21, Curzon Road, New Delhi); Cleveland International Programme for Youth Leaders and Social Workers Inc. (12, Hailey Road, New Delhi); The American Peace Corps in Delhi (61, Sundar Nagar, New Delhi-11).

Other Agencies Functioning in India : Youth Welfare Association, 29-24 Shakti Nagar, Delhi-6, Gyan Prakash Yuvak Sangh, 653, Chuna Kankar, Mathura, U.P., Social Service League, Indraprastha College, Alipur Road, Delhi, Society for the Education of the Crippled (Child and Adult), Chunilal Mehta Hut, Mahatma Gandhi Road, Bombay-1. All India Mass Education Society, Gonda.

Bhoodan Movement : Special mention must be made of the Bhoodan Movement initiated by Acharya Vinoba Bhave, one of the ablest disciples of Gandhiji. He is effecting a silent but nevertheless remarkable social revolution within the country by the voluntary gift of land (Bhoodan), wealth (Sampattidan), labour (Shramadan) and life (Jeevandan).

CENTRAL SOCIAL WELFARE BOARD

Functions : Survey the needs and requirements of social welfare organisations; evaluate their programmes and objectives; coordinate the assistance given by various Central Ministries and Departments and State Departments; promote the development of voluntary organisations in the areas where no such organisations exist; render financial assistance to deserving agencies.

There are 26 State Social Welfare Advisory Boards which advise and assist the Central Board in the formulation of its policies and interpretation of its programmes to voluntary organisations.

A sum of Rs. 152.98 lakhs was released in 1967-68 in the form of grants to different organisations by the Central Social Welfare Board, either direct or through the State Social Welfare Advisory Boards.

PROGRAMMES

General Grant-in-aid Programmes : From its inception upto the end of March 1968 the Board had sanctioned nearly 31,305 grants amounting to about Rs. 766.22 lakhs under its general grant-in-aid programme. These grants cover services for children, women and the handicapped groups of persons in voluntary welfare institutions.

Scheme of Welfare Extension Projects and Mahila Mandals, in rural areas : The activities include Balwadi (a combination of creche and pre-primary school), Craft Centres for women, Maternity Services, Social Education for adult women, General Medical Aid, etc.

At the end of March 1968, 252 Welfare Extension Projects with 2,457 centres were functioning. In addition, 582 voluntary welfare organisations or newly formed Mahila Mandals were conducting the activities of 1,548 Centres of erstwhile Welfare Extension Projects for which grants amounting to Rs. 201.16 lakhs had been given by the Board to the end of March 1968.

Family and Child Welfare Programmes : It was expected to set up 100 Family and Child Welfare Projects, throughout the country, by the end of 1968-69. It is expected to have a total of 500 projects by the end of the Fourth Five Year Plan.

Welfare Extension Projects (Urban) : The activities provide community welfare centres, creches, balwadis, ante-natal and post-natal advisory services, welfare health centres, hobby clubs, vocational guidance, and other services. Out of 56 projects functioning by the end of

March, 1967, only 31 were sanctioned continuation grant during 1967-68.

Socio-Economic Programme : Under this scheme, grants are given to voluntary welfare institutions for setting up production units of small industries, units as ancillary to large industries, handloom training-cum-production units, handicrafts training, procurement and production units, etc. The Board has so far sanctioned 112 units, out of which 99 started functioning by the end of March, 1968 and are providing work and wages to about 2,850 needy women and handicapped persons.

Condensed Courses of Education for Adult Women : Adult women of the lower income group are prepared for middle school or matriculation examinations in condensed courses of two years duration. Up to the end of March 1968, the Board had sanctioned 1,085 courses in different parts of the country.

Holiday Camps for Children : This scheme enables children of low income groups to be taken to holiday camps at hill stations or other summer or sea resorts, outside their home towns, during vacation free of cost. Grants not exceeding Rs. 3,000 per Camp are given by the Board to voluntary institutions, through State Boards, which implement the programme.

During the two years ending March, 1968, the Board had sanctioned grants for organising 323 Camps for benefiting about 16,000 more children.

Special Child Welfare Programmes : Demonstration projects of integrated child welfare services for meeting the total needs of children in the age group 0 to 6 were set up by the Government of India, during the Third Five Year Plan. The Board was to organise the Balwadis in these projects. Over 405 balwadis have been set up in 12 projects. The other special child welfare schemes which the Board took up during the Third Plan Period include training courses for Balsevikas (Child Welfare Workers) required for Child Welfare Services. Seven Balsevikas Training Centres offering two year courses have been started in the States of Andhra Pradesh, Assam, Gujarat, Madhya Pradesh, Mysore, Orissa and U.P. Integrated pre-school projects (urban neighbourhood) have been started in the States of Assam, Gujarat, Kerala, Tamil Nadu, Mysore, Punjab, Rajasthan, Uttar Pradesh, West Bengal and Delhi. Two foster care service units were started in Bombay and Madras. Other programmes taken up in hand are production of pictorial literature for children of the pre-school age, standardisation of education and recreational equipment and material for pre-schools, starting of integrated pre-school projects in urban areas; preparation of guidance material to child welfare workers; adoption of Indian children by foreign nationals; and channelising the milk feeding programmes for Balwadi children.

Evaluation of Programmes : The main purpose of the scheme is to maintain an up-to-date information about the changing needs in the field of Social Welfare, evaluate the effectiveness of current programmes and pin-point their deficiency, if any, with a view to initiating remedial action. A survey to find out the potential available among the educated unemployed women in Delhi for voluntary work, and a study to find out the reasons for imbalance in grants sanctioned to various States were recently made, by the Board.

Publicity : The Board brings out two monthly journals "Social Welfare" in English and "Samaj Kalyan" in Hindi.

INDUSTRIAL PRODUCTION 1968*

INDUSTRIAL MACHINERY

Sugar Mill Machinery : No. of units 16 (19) ; Estimated Production in Rs. lakhs 1,130.00 (1,058.00).—*Boilers* : No. of units 13 (14) ; Est. Prod. in Rs. lakhs 1,800.00 (470.00).—*Cement Mill Machinery* : No. of units 10 (9) ; Est. Prod. in Rs. lakhs 930.00 (658.00).—*Conveyers and Wagon Tippler* : No. of units 18 (22) ; Est. Prod. in Rs. lakhs 540.00 (560.00).—*Drilling Equipment* : No. of units 10 ; Est. Prod. in Rs. lakhs 136.00 (284.00).—*Reduction Gears* : No. of units 8 ; Est. Prod. in Rs. Lakhs 245.00 (150.00).—*Printing Machinery* : No. of units 5 (6) ; Est. Prod. in Rs. lakhs 10.00 (10.00).—*Gas Cylinders* : No. of units 4 ; Est. Prod. in Rs. lakhs 280.00 (165.00).—*Chemical and Pharmaceutical Machinery* : No. of units 43 ; Est. Prod. in Rs. lakhs 975.00 (900.00).—*Pulp and Paper Making Machinery* : No. of units 13 ; Est. Prod. in Rs. lakhs 240.00 (235.00).—*Mining Machinery* : No. of units 9 ; Est. Prod. in Rs. lakhs 300.00 (330.00).—*Steel Plant Equipment* : No. of units 2 ; Est. Prod. in Rs. lakhs 525.00 (460.00).—*Building and Road Construction Machinery* : No. of units 28 (24) ; Est. Prod. in Rs. lakhs 120.00 (172.00).—*Biscuit and Bread making Machinery* : No. of units 1 ; Est. Prod. in Rs. lakhs 2.00 (5.10).—*Rayon Machinery* : No. of units 1 (2) ; Est. Prod. in Rs. lakhs 56.00 (102.00).—*Tea Machinery* : No. of units 6 (10) ; Est. Prod. in Rs. lakhs 200.00 (200.00).—*Weighing Machinery* : No. of units 3 (4) ; Est. Prod. in Rs. lakhs 180.00 (162.00).—*Oil Mill, Rice, Flour and Dal Mill Machinery (incl'd. Cotton Seed Processing Plant)* : No. of units 11 (15) ; Est. Prod. in Rs. lakhs 92.00 (121.00).—*Tobacco Machinery* : No. of units 1 ; Est. Prod. in Rs. lakhs 17.00 (12.00).—*Leather Machinery* : No. of units 1 ; Est. Prod. in Rs. lakhs 35.00 (28.00).—*Industrial Type of Rice Mill Machinery* : No. of units 1 ; Est. Prod. in Rs. lakhs 5.00 (Nil).—*Dairy Machinery* : No. of units 3 ; Est. Prod. in Rs. lakhs 96.00 (96.00).—*Pesticide Equipment, Agricultural Sprayers and Dusters* : No. of units 2 (4) ; Est. Prod. in Rs. lakhs 195.00 (185.00).—*Asbestos Cement Products Plant* : No. of units 1 ; Est. Prod. in Rs. lakhs 56.00 (69.00).—*Industrial Filtration Equipments including Centrifuges* : No. of units 4 ; Est. Prod. in Rs. lakhs 72.00 (101.00).—*Industrial Screens* : No. of units 4 ; Est. Prod. in Rs. lakhs 45.00 (28.77).—*Electroplating Equipment* : No. of units 2 (3) ; Est. Prod. in Rs. lakhs 30.00 (46.00).—*Food Processing, including Bottling Machines* : No. of units 5 ; Est. Prod. in Rs. lakhs 15.10 (15.00).—*Rubber Machinery* : No. of units 2 (4) ; Est. Prod. in Rs. lakhs 17.00 (15.00).—*Oil Filling Equipments* : No. of units 5 ; Est. Prod. in Rs. lakhs 10.00 (15.00).—*Paints and Varnish Equipments* : No. of units 4 (5) ; Est. Prod. in Rs. lakhs 10.36 (11.26).—*Ceramic Machinery* : No. of units 1 (2) ; Est. Prod. in Rs. lakhs 8.6 (8.00).—*Industrial Drycleaning and Washing Equipments* : No. of units 1 ; Est. Prod. in Rs. lakhs 40.00 (30.00).—*Impregnating Plants and Coil Winding Machineries* : No. of units 1 ; Est. Prod. in Rs. lakhs 23.00 (5.37).—*Feed Mill Plants* : No. of units 1 ; Est. Prod. in Rs. lakhs 72.74 (33.03).

TOOLS AND ABRASIVES INDUSTRIES

Machine Tools : No. of units 70 (75) ; Estimated Production in Rs. lakhs 1,795.48 (2,185.36).—*Machine Tools Accessories* : No. of units 14 (11) ; Est. Prod. in Rs. lakhs 82.72 (60.97).—*Wood Working Machines* : No. of units 4 ; Est. Prod. in Rs. lakhs 5.80 (6.56).—*Portable Tools* : No. of units 7 ; Est. Prod. in Rs. lakhs 133.56 (156.95).—*Other Metal Forming Machines* : No. of units 4 ; Est. Prod. in Rs. lakhs 46.48 (56.96).—*Plastic Working Machine* : No. of

units 3 (4) ; Est. Prod. in Rs. lakhs 91.36 (107.31).—*Furnaces* : No. of units 14 (19) ; Est. Prod. in Rs. lakhs 348.16 (379.15).—*Gas Welding—Cutting Equipment* : No. of units 2 (3) ; Est. Prod. in Rs. lakhs 82.28 (76.49).—*Electric Welding Machines* : No. of units 2 ; Est. Prod. in Rs. lakhs 52.40 (57.14).—*Others (Retrolling Plants etc.)* : No. of units 4 ; Est. Prod. in Rs. lakhs 44.32 (38.97).—*Grinding Wheels* : No. of units 4 (7) ; Est. Prod. in lakh kgs. 36.08 (43.33).—*Coated Abrasives* : No. of units 3 (4) ; Est. Prod. in Th. Reams 144.06 (175.11).—*Steel files* : No. of units 6 ; Est. Prod. in Lakh Nos. 119.01 (102.49).—*Twist Drills* : No. of units 6 ; Est. Prod. in lakh Nos. 85.20 (74.48).—*Reamers* : No. of units 10 (9) ; Est. Prod. in Th. Nos. 215.14 (200.61).—*Threading Tools* : No. of units 9 (7) ; Est. Prod. in Lakh Nos. 23.50 (17.96).—*Milling Cutters* : No. of units 13 (11) ; Est. Prod. in Th. Nos. 261.17 (271.78).—*Bandsaw Blades(W)* : No. of units 5 ; Est. Prod. in Th. R.M. 831.40 (1,093.87).—*Bandsaw Blades(M)* : No. of units 4 ; Est. Prod. in Th. R.M. 824.52 (1,077.25).—*Hacksaw Blades* : No. of units 5 (6) ; Est. Prod. in Th. Nos. 32,704.40 (25,713.10).—*Lathe Tools (Tool Bits)* : No. of units 8 (9) ; Est. Prod. in Lakh Nos. 8.34 (7.99).—*Tungsten Carbide(s)* : No. of units 5 (4) ; Est. Prod. in Th. Kgs. 53.14 (48.35).—*Diamond Drill Bits* : No. of units 4 ; Est. Prod. in Th. Nos. 16.54 (34.24).—*Hand Saws* : No. of units 2 ; Est. Prod. in Th. Nos. 100.19 (130.66).—*Micrometers* : No. of units 1 ; Est. Prod. in Th. Nos. 9.82 (9.90).—*Industrial Knives* : No. of units 3 (2) ; Est. Prod. in Th. Nos. 108.70 (211.24).—*Forged Hand Tools (like Spanners, Wrenches etc.)* : No. of units 8 (4) ; Est. Prod. in Rs. lakhs 308.44 (267.09).—*Other Diamond Tools etc.* : No. of units 3 (7) ; Est. Prod. in Rs. lakhs 56.00 (89.92).—*Tungsten Carbide Tipped Tools* : No. of units 7 ; Est. Prod. in Lakh Nos. 5.53 (6.59).—*Breaches* : No. of units 1 ; Est. Prod. in Numbers 1,424 (1,407).—*Measuring Tapes (Metallic, Non-Metallic and Steel)* : No. of units 2 ; Est. Prod. in Lakh Nos. 11.24 (5.33).

AUTOMOBILE AND ANCILLARIES

Motor Cycles and Scooters etc.

M/Cycles : No. of units 3 ; Estimated Production in Th. Nos. 28.00 (23.34).—*3-Wheelers* : No. of units 3 ; Est. Prod. in Th. Nos. 4.00 (3.98).—*Scooters* : No. of units 3 ; Est. Prod. in Th. Nos. 40.00 (30.30).—*Mopeds* : No. of units 3 (4) ; Est. Prod. in Th. Nos. 10.00 (9.18).—*Automobiles*—(a) *Commercial Vehicles* : No. of units 6 ; Est. Prod. in Th. Nos. 35.00 (31.46).—(b) *Jeeps* : No. of units 1 ; Est. Prod. in Th. Nos. 8.00 (5.56).—(c) *Cars* : No. of units 3 ; Est. Prod. in Th. Nos. 37.00 (33.34).—*Ancillaries*—(a) *Fuel Injection Equipmt.* : *Nozzles* : No. of units 3 ; Est. Prod. in Th. Nos. 1,200.00 (1,100.17).—*Nozzle Holder* : No. of units 3 ; Est. Prod. in Th. Nos. 600.00 (492.01).—*Elements* : No. of units 4 ; Est. Prod. in Th. Nos. 1,200.00 (1,091.90).—*Delivery Valves* : No. of units 3 ; Est. Prod. in Th. Nos. 900.00 (747.99).—*Single Cylinder Pumps* : No. of units 3 ; Est. Prod. in Th. Nos. 300.00 (240.32).—*Multi Cylinder Pumps* : No. of units 1 ; Est. Prod. in Th. Nos. 50.00 (40.72).—(b) *Filters (Oil, Air, Fuel)* : No. of units 4 ; Est. Prod. in Th. Nos. 300.00 (159.03).—*Filter Inserts* : No. of units 4 ; Est. Prod. in Th. Nos. 800.00 (754.25).—(c) *Thin Walled bearings* : No. of units 3 ; Est. Prod. in Th. Nos. 7,500.00 (6,577.79).—*Radiators* : No. of Units 6 ; Est. Prod. in Th. Nos. 90.00 (89.92).—(d) *Dynamos* : No. of units 4 ; Est. Prod. in Th. Nos. 100.00 (90.44).—(e) *Starter Motors* : No. of units 4 ; Est. Prod. in Th. Nos.

* Note : Against Estimated Production, the figures within brackets indicate the actual production for 1967. Regarding the No. of units, it is generally the same for 1967 and 1968. Any difference is indicated by the figures in brackets which relate to the year 1967.

100.00 (89.75).—(f) *Electric Horns*: No. of units 6; Est. Prod. in Th. Nos. 200.00 (166.83).—(g) *Gaskets*: No. of units 3; Est. Prod. in Lakh Nos. 500.00 (382.93).—(h) *Wheels and Rims*: No. of units 3; Est. Prod. in Th. Nos. 600.00 (504.51).—(i) *Engine Valves*: No. of units 5 (4); Est. Prod. in Th. Nos. 4,000.00 (3,527.00).—(j) *Oil Seals*: No. of units 7; Est. Prod. in Th. Nos. 6,000.00 (5,946.30).—(k) *Piston Rings*: No. of units 3 (2); Est. Prod. in Lakh Nos. 140.00 (112.34).—(l) *Pistons*: No. of units 4 (3); Est. Prod. in Th. No. 1,800.00 (1,322.72).—(m) *Cylinder Liners*: No. of units 3; Est. Prod. in Th. No. 260.00 (254.09).—(n) *Shock Absorbers*: No. of units 5; Est. Prod. in Th. Nos. 800.00 (740.67).—(o) *Clutch Facing*: No. of units 3; Est. Prod. in M. Tons. 150.00 (153.44).—(p) *Brake Lining*: No. of units 4 (3); Est. Prod. in M. Tons. 1,700.00 (1,648.27).—(q) *Clutch Assembly*:—*Driven Plates*: No. of units 1; Est. Prod. in Th. Nos. 150.00 (156.24).—*Cover Assy.*: No. of units 1; Est. Prod. in Th. Nos. 100.00 (90.31).—(r) *Spark Plugs*: No. of units 2; Est. Prod. in Th. Nos. 2,000.00 (2,093.29).—(s) *Dash Board Insts.*: No. of units 2; Est. Prod. in Rs. lakhs 150.00 (129.91).—(t) *Tie Rodends*: No. of units 2; Est. Prod. in Th. Nos. 425.00 (383.10).—(u) *Taxi Meters*: No. of units 1; Est. Prod. in Nos. 750.00 (687).—(v) *Propeller Shafts*: No. of units 1; Est. Prod. in Th. Nos. 60.00 (50.31).—(w) *Fly Wheel Rings Gears*: No. of units 1; Est. Prod. in Th. Nos. 60.00 (58.30).—(x) *Carburettors*: No. of units 3; Est. Prod. in Th. Nos. 35.00 (19.30).—(y) *Wipers Motor*: No. of units 2; Est. Prod. in Th. Nos. 90.00 (80.34).—(z) *Wiper Assm. and Blades*: No. of units 1; Est. Prod. in Th. Nos. 450.00 (429.29).

LIGHT ELECTRICAL ENGINEERING INDUSTRIES

GLS Lamps: No. of units 8 (10); Estimated Production in Million Nos. 77.00 (73.70).—*Miniature Lamps*: No. of units 5 (8); Est. Prod. in Million Nos. 27.00 (28.17).—*Fluorescent Tubes*: No. of units 6 (5); Est. Prod. in Million Nos. 8.00 (5.37).—*Electric Fans*: No. of units 15 (22); Est. Prod. Lakh Nos. 15.00 (13.77).—*Radio Receivers*: No. of units 16 (21); Est. Prod. Thousand Nos. 1,300.00 (851.90).—*Storage Batteries*: No. of units 6 (12); Est. Prod. in Lakh Nos. 8.50 (7.96).—*Dry Batteries*: No. of units 4; Est. Prod. in Million Cells 400.00 (314.45).—*House Service Meters*: No. of units 14 (15); Est. Prod. in Lakh Nos. 8.82 (9.27).—*Domestic Refrigerators*: No. of units 5; Est. Prod. in Thousand Nos. 50.00 (39.48).—*Room Air-Conditioners*: No. of units 7 (8); Est. Prod. in Thousand Nos. 16.00 (18.07).—*Electrical Measuring Instruments*: No. of units 5 (8); Est. Prod. in lakh Nos. 0.39 (1.26).—*Electrical Wiring Accessories*: No. of units 4 (14); Est. Prod. in Lakh Nos. 72.00 (177.34).—*Brass Lamp Holders*: No. of units 4 (7); Est. Prod. in Lakh Nos. 9.0 (24.20).—*Industries Air Cond. and Refri. Equipment*: No. of units 18 (21); Est. Prod. in Rs. lakh 600.00 (660.00).—*Industries Cooling Tower*: No. of units 3; Est. Prod. in Rs. lakhs 135.00 (133.00).

HEAVY ELECTRICAL INDUSTRIES

Electric Motors: No. of units 19 (25); Estimated Production in Million H.P. 2.00 (2.06).—*Transformers*: No. of units 21 (22); Est. Prod. in Million KVA 5.00 (5.24).—*Motor Starters*: No. of units 12 (19); Est. Prod. in Thousand No. 350.00 (450.81).—*Electrical Steel Sheets*: No. of units 1; Est. Prod. in M. Tonnes 26,500 (26,087).

CABLES AND WIRES

VIR and PVC Cables: No. of units 16 (32); Estimated Production in K/M 3,70,000 (3,64,910).—*ACSR & ACC*: No. of units 27; Est. Prod. in M. Tons 70,000 (70,161).—

Winding Wires: (a) *Enamelled Wires*: No. of units 24 (19); Est. Prod. in M. Tons 9,200 (8,902).—(b) *Paper Cotton covered Wires & Strips*: Est. Prod. in M. Tons 3,600 (4,228).—*Paper Insulated Power Cables*: No. of units 7; Est. Prod. in K/M 2,500 (2,788).—*Bare Copper conductors*: No. of units 4 (7); Est. Prod. in M. Tons 1,000 (851).—*P. V. C. Power Cables*: No. of units 10 (9); Est. Prod. in K/M 9,500 (14,016).

HEAVY ENGINEERING INDUSTRIES

Steel Casting: No. of units 42 (39); Estimated Production in M.T. 46,800 (52,740).—*Steel Forging*: No. of units 44 (49); Est. Prod. in Tonnes 44,000 (40,500).—*Cast Iron Spun Pipes*: No. of units 29 (19); Est. Prod. in M.T. 1,39,700 (1,70,604).—*Chilled Iron Shots & Grits*: No. of units 2; Est. Prod. in M.T. 2,100 (1,823).—*Rolls Industries*: No. of units 3 (2); Est. Prod. in Tonnes 3,000 (801).—*Malleable Iron Casting*: No. of units 15 (29); Est. Prod. in M.T. 11,000 (13,855).—*Cast Iron Castings (including S. G. Iron Castings)*: No. of units 52 (128); Est. Prod. in M.T. 2,00,000 (2,82,900).

INSTRUMENTS

Industrial Process & Control instruments: No. of units 9 (15); Estimated Production in Rs. Million 18.00 (20.49).—*Scientific Surveying and Optical Instruments*: No. of units 10 (32); Est. Prod. in Rs. Million 28.8 (31.32).—*Water Meters*: No. of units 7 (8); Est. Prod. in lakh Nos. 1,700; (1.30).—*X-Ray & Electromedical Equipments*: No. of units 8 (4); Est. Prod. in Rs. Mill. 15.00 (14.30).—*Mathematical Instruments*: No. of units 1 (3); Est. Prod. in Gross No. 19.40 (2,989).—*Photographic*: No. of units 2 (4); Est. Prod. in Rs. Mill. 2.40 (3.10).

MEDICAL INSTRUMENTS

Medical Instruments Equipments and Appliances: No. of units 7 (15); Estimated Production in Rs. Mill. 7.86 (13.57).

HEAVY MECHANICAL INDUSTRIES

E. R. W. Tubes for Bicycles, Transformers: No. of units 4; Estimated Production in Tonnes 14,995 (22,547).—*Welding Electrodes*: No. of units 17; Est. Prod. in Million Running Meters 163 (215.22).—*Wire Ropes*: No. of units 9; Est. Prod. in M. Tons 11,322 (13,346).—*Railway Wagons*: No. of units 16; Est. Prod. in Nos. in terms of 4-wheelers 10,115 (13,383).—*Lifts*: No. of units 4; Est. Prod. in Nos. 350 (510).—*Bright Bars*: No. of units 9; Est. Prod. in Tonnes 23,795 (30,776).—*Cranes*: No. of units 23; Est. Prod. in M. Tons 7,000 (7,600).—*Transmission Towers*: No. of units 16 (14); Est. Prod. in M. Tons 60,000 (53,215).—*Slotted Angles and Cold foamed structural etc.*: No. of units 3; Est. Prod. in M. Tons 3,000 (3,081).—*Heavy Structures Fabrication*: No. of units 22 (23); Est. Prod. in M. Tons 40,000 (48,199).—*Light and Medium Fabricated Structures*: No. of units 62 (60); Est. Prod. in M. Tons 45,000 (53,520).—*Black Galvd. Tubes for water structural etc.*: No. of units 13; Est. Prod. in Tonnes 1,87,631 (2,25,108).—*Seamless Steel Tubes*: No. of units 1; Est. Prod. in Tonnes 16,616 (24,156).

LIGHT MECHANICAL INDUSTRIES

Bicycle complete: No. of units 12 (18); Estimated Production in Nos. 18,65,000 (16,94,260).—*Bicycle spare parts and Accessories*: No. of units 28 (55); Est. Prod. in Mill. Rs. 106.00 (112.09).—*Ball & Roller Bearings*: No. of units 6; Est. Prod. in Mill. Nos. 11.10 (10.07).—*Duplicators*: No. of units 3 (4); Est. Prod. in Nos. 5,150 (4,727).—*Sewing Machine*: No. of units 5 (9); Est. Prod. in Nos. 4,16,000 (4,57,819).—*Stoves*: (a) *Pressure types*:

No. of units 1 (5); Est. Prod. in Nos. 11,000 (1,07,196).—*(b) Non-pressure types*: No. of units 2; Est. Prod. in Nos. 4,51,000 (3,89,099).—*Typewriters*: No. of Units 4; Est. Prod. in Nos. 44,600 (46,951).—*Zip fasteners*: No. of units 2 (6); Est. Prod. in Meters 27,40,000 (43,59,220).—*Needles*:—*(a) Gramophone*: No. of units 2; Est. Prod. in Mill. Nos. 345 (213.69).—*(b) Hand Sewing*: No. of units 2; Est. Prod. in Mill. Nos. 219 (174.50);—*(c) Sewing Machines*: No. of units 2; Est. Prod. in Mill. Nos. 6.07 (5.82).—*Addressing Machines*: No. of units 2; Est. Prod. in Nos. 600 (461).—*Data Processing Machines*: No. of units 2; Est. Prod. in Nos. 2,760 (2,230).—*Calculating and Adding Machines*: No. of units 1; Est. Prod. in Nos. 3,720 (6,412).—*Expanded Metal*: No. of units 1 (5); Est. Prod. in Tonnes 185 (665.904).—*Grinding Media*: No. of units 6 (8); Est. Prod. in Tonnes 11,050 (11,487.576).—*Auto Leaf Springs*: No. of units 11 (15); Est. Prod. in Tonnes 15,900 (24,518.51).—*Steel Furniture*: No. of units 13 (26); Est. Prod. in Tonnes 33,000.00 (33,258).—*Agricultural Implements*: No. of units 21 (52); Est. Prod. in Tonnes 21,200.00 (22,400).—*Machine Screws*: No. of units 6 (15); Est. Prod. in Mill. Nos. 460 (633.064).—*Wood Screws*: No. of units 5 (18); Est. Prod. in Mill. Nos. 1,398 (1,759.801).—*Building Hardware*: No. of units 6 (23); Est. Prod. in Tonnes 1,100 (7,000.00).—*Razor Blades*: No. of units 5; Est. Prod. in Mill. Nos. 840 (779.350).—*Crown Corks*: No. of units 2 (7); Est. Prod. in Mill. Nos. 1,398 (1,321.800).—*Hurricane Lanterns*: No. of units 5(10); Est. Prod. in Mill. Nos. 2.86 (4.22).—*Time Pieces*: No. of units 4; Est. Prod. in Mill. Nos. 0.52 (0.47).—*Watches*: No. of units 2; Est. Prod. in Mill. Nos. 0.30 (0.26).—*H.T. Bolts & Nuts*: No. of units 5 (6); Est. Prod. in Tonnes 4,135.00 (3,776.421).—*Collapsible Tubes*: No. of units 5 (6); Est. Prod. in Mill. Nos. 230.00 (189.98).—*Umbrella Ribs*: No. of units 1 (6); Est. Prod. in Mill. Doz. Sets 0.30 (0.52).—*Steel Link Chains*: No. of units 2 (4); Est. Prod. in Tonnes 480.00 (924.37).—*Wire Gauge/Wire Netting and Chain Link Fencing*: No. of units 2 (6); Est. Prod. in Tonnes 503.00 (1,110.00).—*Bolts, Nuts & Rivets, Washers and Dogspikes*: No. of units 18 (34); Est. Prod. in Tonnes 32,040.000 (27,607.053).—*Clocks*: No. of units 3 (5); Est. Prod. in Mill. Nos. 0.082 (0.081).—*Valves & Cocks*: No. of units 8; Est. Prod. in Mill. Nos. 1.000 (0.95).—*Industrial Coil Springs*: No. of units 2 (3); Est. Prod. in Tonnes 445 (659.763).—*Steel Balls*: No. of units 3 (4); Est. Prod. in Lakh Nos. 12,896.00 (12,454.24).—*Agricultural Machinery*: No. of units 8 (21); Est. Prod. in Lakh Nos. 1,500.00 (1,800).—*Industrial Roller Chains*: No. of units 4 (3); Est. Prod. in Rs. lakhs 57.00 (42.47).

CEMENT

Cement: No. of units 44 (42); Estimated Production in Thousand Tonnes 11,943 (11,302).

CARBON PRODUCT

Cinema Arc Carbon: No. of units 2 (3); Estimated Production in Mill. Pairs 5.09 (4.35).—*Calcined Petroleum Coke*: No. of units 1; Est. Prod. in Tonnes 62,868 (51,288).—*Pencils*: No. of units 3 (13); Est. Prod. in Lakh Gross 5.07 (13.75).—*Midget Electrodes*: No. of units 1; Est. Prod. in Mill. Pcs. 328 (205.70).

INDUSTRIAL EXPLOSIVES INDUSTRY

Blasting Explosives: No. of units 1; Estimated Production in Tonnes 24,140 (21,090).—*Detonators*: No. of units 2; Est. Prod. in Mill. Nos. 91.15 (68.70).—*Safety Fuses*: No. of units 2; Est. Prod. in Mill. Coils 6.8 (10.214).—*Loxite Explosives*: No. of units 1; Est. Prod. in Tonnes 1,755 (1,705).—*Detonating Fuse*: No. of units 1; Est. Prod. in Mill. Mtr. 9.21 (3.2).

CERAMICS

Refractories: No. of units 43 (69); Estimated Production in Th. Tonnes 618 (748.2).—*Insulators H.T.*: No. of units 7 (10); Est. Production in Tonnes 11,200 (10,668).—*Insulators L. T.*: No. of units 13 (18); Est. Prod. in Tonnes 1,000 (3,536).—*Sanitaryware*: No. of units 13 (22); Est. Prod. in Tonnes 11,000 (12,640).—*Glazed Tiles*: No. of units 4 (8); Est. Prod. in Tonnes 12,500 (11,530).—*Crockery*: No. of units 19 (43); Est. Prod. in Tonnes 9,500 (17,340).—*Stoneware Pipes*: No. of units 11 (22); Est. Prod. in Tonnes 52,500 (69,870).—*Stoneware Containers*: No. of units 11 (25); Est. Prod. in Tonnes 5,500 (11,730).—*Abrasive Grains*: No. of units 1 (4); Est. Prod. in Tonnes 1,700 (3,380).

PAPER INDUSTRY

Paper & Paper Board: No. of units 56; Estimated Production in Thousand Tonnes 630 (608.88).—*Newsprint*: No. of units 1 (1); Est. Prod. in Thousand Tonnes 30.00 (31.02).

TIMBER INDUSTRY

Plywood:—*(a) Teacheast*: No. of units 71 (65); Estimated Production in Million sq. meters 12.2 (10.8).—*(b) Commercial*: Est. Prod. in Million sq. meters 15.6 (14.4).—*Hard Board*: No. of units 3; Est. Prod. in Million sq. meters 4.43 (3.12).—*Insulation Board*: No. of units 1; Est. Prod. in Metric Tons 1,910 (1,749).—*Particle Board*: No. of units 8; Est. Prod. in Million sq. meters 0.653 (0.726).—*Safety Matches*: No. of units 6; Est. Prod. in Million Boxes 4,443 (4,084).—*Cork Products*:—*(a) Stoppers*: No. of units 2; Est. Prod. in Million Gross 1.238 (1.246).—*(b) Discs*: No. of units 2; Est. Prod. in Million Gross 9.445 (8.45).—*(c) Sheets*: No. of units 2; Est. Prod. in Million sq. meters 1.308 (0.781).

LEATHER INDUSTRY

Vegetable Tanning of Hides: No. of units 33; Estimated Production in Cow Hide in lakhs 25.50 (31.78).—*Chrome Tanning of Hides*: No. of units 12; Est. Prod. in Hides in lakhs 8.20 (8.98).—*Western type of Leather Foot-wear*: No. of units 9 (12); Est. Prod. in lakhs pairs 95.00 (105.32).—*Indigenous type of Leather Foot-wear*: No. of units 9 (12); Est. Prod. in lakh pairs 86.80 (73.18).—*Glue*: No. of units 4 (7); Est. Prod. in lakh Kgs. 19.00 (24.32).—*Pickers*: No. of units 1 (5); Est. Prod. in Lakh Nos. 8.00 (13.55).—*Myrobalan Extracts*: No. of units 2 (3); Est. Prod. in Th. Tonnes 1.00 (1.61).

RUBBER MANUFACTURERS

Automobile Tyres: No. of units 8; Estimated Production in Lakh Nos. 33.00 (27.06).—*Automobile Tubes*: No. of units 8; Est. Prod. in Lakh Nos. 33.00 (30.03).—*Bicycle Tyres*: No. of units 12; Est. Prod. in lakh Nos. 240.00 (223.38).—*Bicycle Tubes*: No. of units 14; Est. Prod. in lakh Nos. 240.00 (194.00).—*Camel Back*: No. of units 11; Est. Prod. in M. Tons 11,000 (10,870).—*Rubber & Canvas Foot-wear*: No. of units 17; Est. Prod. in Million Pairs 57.00 (54.92).—*Vee and Fan Belts*: No. of units 6; Est. Prod. in lakh Nos. 53.00 (47.00).—*Carbon Black*: No. of units 2; Est. Prod. in M. Tons 24,000 (23,747).—*Reclaim Rubber*: No. of units 4 (3); Est. Prod. in M. Tons 10,000 (8,680).

PAINT AND SURFACE COATING MATERIALS

Paints: No. of units 50; Est. Prod. in Tonnes 46,560 (70,649).—*Titanium Dioxide*: No. of units 1; Est. Prod. in Tonnes 3,882 (3,370).—*Aluminium Paste*: No. of units 2; Est. Prod. in Tonnes 207 (790).—*Zinc Oxide*: No. of units 6; Est. Prod. in Tonnes 5,196 (7,526).—*Red Lead*:

No. of units 4; Est. Prod. in Tonnes 2,353 (2,699).—*White Lead*: No. of units 1; Est. Prod. in Tonnes 403 (602).—*Synthetic Resin*: No. of units 22; Est. Prod. in Tonnes 8,998 (12,660).—*Chrome Colour*: No. of units 9; Est. Prod. in Tonnes 1,011 (1,552).—*N. C. Lacquers (Clear, Pigmented and Ancillaries)*: No. of units 8; Est. Prod. in Million Litres 1,502 (2.02).

COSMETICS AND TOILET PREPARATION

Soap: No. of units 43 (61); Estimated Production in Tonnes 2,16,896 (1,91,634).—*Fatty Acids*: No. of units 10 (9); Est. Prod. in tonnes 16,276 (12,065).—*Metallic Stearates*: No. of units 6; Est. Prod. in Tonnes 142 (108).—*Tooth Paste*: No. of units 8 (10); Est. Prod. in kgs. 38,48,000 (31,58,754).—*Tooth Powder*: No. of units 5 (7); Est. Prod. in Kgs. 4,80,000 (3,13,555).—*Toilet and Talcum Powder (Single shift basis)*: No. of units 16; Est. Prod. in kgs. 50,00,000 (50,32,937).—*Face Powder*: No. of units 11 (12); Est. Prod. in kgs. 54,146 (3,61,959).—*Face Cream and Snow*: No. of units 15 (16); Est. Prod. in kgs. 7,80,806 (7,61,091).—*Glycerine*: No. of units 20 (16); Est. Prod. in Tonnes 8,898 (8,745).—*Carboxy Methyl-Cellulose*: No. of units 2; Est. Prod. in Tonnes 2,951 (2,933).—*Textile Auxiliaries*: No. of units 13 (14); Est. Prod. in Tonnes 11,945 (12,345).

FOOD PROCESSING INDUSTRIES

Biscuits: No. of units 31; Estimated Production in Metric tonnes 66,500 (57,360).—*Confectionery*: No. of units 29; Est. Prod. in Metric tonnes 13,000 (23,443).—*Liquid Glucose*: No. of units 5; Est. Prod. in Metric tonnes 24,000 (23,976).—*Dextrose Powder*: No. of units 2; Est. Prod. in Metric tonnes 8,800 (7,815).—*Flour Milling*: No. of units 111 (102); Est. Prod. in Metric tonnes 10,50,000 (14,40,618).—*Cigarettes*: No. of units 13 (12); Est. Prod. in Million pieces 64,083 (53,700).—*Breakfast Foods*:—(a) *Corn and Wheat Flakes*: No. of units 1; Est. Prod. in Tonnes 350 (318).—(b) *Processed and Rolled Oats*: No. of units 1; Est. Prod. in Tonnes 400 (377).—(c) *Processed Pearl Barley*: No. of units 3; Est. Prod. in Tonnes 2,000 (2,239).—*Chocolates and Cocoa Powder*:—(a) *Chocolates*: No. of units 3; Est. Prod. in Tonnes 1,260 (1,044).—(b) *Drinking Chocolates*: No. of units 3; Est. Prod. in Tonnes 1,400 (868).—(c) *Cocoa Powder*: No. of units 3; Est. Prod. in Tonnes 200 (347).—*Sweetened Condensed Milk*: No. of units 4; Est. Prod. in Tonnes 9,700 (6,579).—*Baby Food/Infant Milk Food*: No. of units 5; Est. Prod. in Tonnes 12,000 (9,182).—*Milk Powder*: No. of units 6 (7); Est. Prod. in Metric tonnes 9,000 (3,040).—*Malted Milk Foods*: No. of units 7; Est. Prod. in Metric tonnes 8,700 (6,766).—*Malt Extract*: No. of units 3; Est. Prod. in Metric tonnes 2,200 (2,200).—*Gur Gum*: No. of units 5; Est. Prod. in Metric tonnes 5,500 (20,000).—*Starch*: No. of units 8; Est. Prod. in Metric tonnes 89,000 (74,000).—*Vegetables and Fruit Preservation*: No. of units 37 (36); Est. Prod. in Metric tonnes 50,000 (62,848).—*Canned Fish Products*: No. of units 21; Est. Prod. in Metric tonnes 2,000 (1,885).—*Meat and Meat Products*: No. of units 4; Est. Prod. in Metric tonnes 300 (975).—*Open Top Sanitary Cans*: No. of units 8; Est. Prod. in Metric tonnes 12,575 (20,000).—*Filter Rods for Cigarettes*: No. of units 1; Est. Prod. in Mil. Pieces 470 (399).—*Weaning Foods*: No. of units 2; Est. Prod. in Tonnes 350 (330).—*Protein Foods*: No. of units 3; Est. Prod. in Tonnes 250 (180).—*Modified milk-food for infants*: No. of units 2; Est. Prod. in Tonnes 325 (374).—*Instant Coffee*: No. of units 2; Est. Prod. in tonnes 850 (493).—*Aerated Waters*: No. of units 21 (17);

Est. Prod. in 100 Bottles 38,80,372 (31,43,908).—*Industrial Enzymes*: No. of unit 1; Est. Prod. in M. Tonnes 650(85).

GLASSWARE AND ALLIED INDUSTRIES

Glassware: No. of units 36 (113); Estimated Production in Tonnes 20,000 (2,95,433).—*Enamelwares*: No. of units 6 (18); Est. Prod. in Th. Pcs. 17,284 (19,385).—*Synthetic Stones*: No. of units 1; Est. Prod. in Kgs. 14,381 (12,526).

INDUSTRIAL GASES AND MISCELLANEOUS CHEMICALS

Industrial Gases:—(a) *Oxygen Gas*: No. of units 50; Estimated Production in Thousand cubic meters 33,800 (32,594).—(b) *D. Acetylene Gas*: No. of units 34; Est. Prod. in Thousand cubic meters 5,570 (5,410).—*Hydrogen Gas*: No. of units 6; Est. Prod. in Thousand cubic meters 580 (573).—(d) *Nitrogen Gas*: No. of units 11 (10); Est. Prod. in Thousand cubic meters 750 (668).—(e) *Argon Gas*: No. of units 3; Est. Prod. in Thousand cubic meters 140 (133).—(f) *Nitrous Oxide Gas*: No. of units 3; Est. Prod. in Million litres 190 (172).—(g) *Carbon Dioxide Gas*: No. of units 24 (28); Est. Prod. in Tonnes 10,000 (10,936).—*Basic Electroplating Salts*:—(a) *Nickel Sulphate*: No. of units 6 (7); Est. Prod. in Tonnes 500 (559).—(b) *Nickel Carbonate*: No. of units 3 (5); Est. Prod. in Tonnes 5 (26).—(c) *Chromic Acid*: No. of units 5 (6); Est. Prod. in Tonnes 400 (438).—(d) *Nickel Chloride*: No. of units 5; Est. Prod. in Tonnes 80 (105).—*Heat-Treatment Salts*:—(a) *Cyanide type*: No. of units 3; Est. Prod. in Tonnes 800 (718).—(b) *Nvn-Cyanide type*: No. of units 3; Est. Prod. in Tonnes 600 (639).—(c) *Tempering Salts*: No. of units 1; Est. Prod. in Tonnes 40 (31).—(d) *Economisers Tempering and Cutting oils*: No. of units 2; Est. Prod. in Tonnes 420 (416).—*Water Treatment Salts*:—(a) *Sodium Hexameta-Phosphate*: No. of units 1; Est. Prod. in Tonnes 550 (534).—(b) *Alflock Powder*: No. of units 1; Est. Prod. in Tonnes 450 (445).—(c) *Sodium Tripoly Phosphate*: No. of units 1; Est. Prod. in Tonnes 4,000. —*Fluxes*:—(a) *Gas Welding Fluxes*: No. of units 3; Est. Prod. in Tonnes 15 (20).—(b) *Soldering Fluxes*: No. of units 1; Est. Prod. in Tonnes 4.5 (4.4).—(c) *Submerged Arc Welding Fluxes*: No. of units 2; Est. Prod. in Tonnes 150 (137).—*Foundary Chemicals*:—(a) *Fluxes*: No. of units 1 (2); Est. Prod. in Tonnes 680 (751).—(b) *Binders*: No. of units 3 (4); Est. Prod. in Tonnes 820 (822).—(c) *Dressing*: No. of units 2 (3); Est. Prod. in Tonnes 400 (473).—(d) *Deoxidising tubes*: No. of units 1; Est. Prod. in Tonnes 1.5 (2.4).—(e) *Exothermics*: No. of units 1; Est. Prod. in Tonnes 200 (260).—(f) *Miscellaneous Compounds*: No. of units 1; Est. Prod. in Tonnes 150 (139).—*Miscellaneous Chemicals*:—(a) *Activated Bleaching Earth*: No. of units 1 (2); Est. Prod. in Tonnes 2,000 (3,310).—(b) *Activated Carbons*:—No. of units 2 (3); Est. Prod. in Tonnes 600 (1,163).—(c) *Rare Earth Chloride*: No. of units 1; Est. Prod. in Tonnes 3,900 (3,860).—(d) *Potassium Permanganate*: No. of units 1 (3); Est. Prod. in tonnes 675 (670).—*Barium Salts*:—(a) *Barium Sulphate*: No. of units 1 (2); Est. Prod. in Tonnes 150 (758).—(b) *Barium Nitrate*: No. of units 3 (4); Est. Prod. in Tonnes 900 (1,100).—(c) *Barium Carbonate*: No. of units 2 (6); Est. Prod. in Tonnes 1,100 (2,000).—*Catalysts*:—(a) *Vandium Pentoxide*: No. of units 1; Est. Prod. in Kilolitres 110 (120).—(b) *Platinum Rhodium*: No. of units 2; Est. Prod. in Kgs. 220 (234).—(c) *Nickel Catalysts*: No. of units 1; Est. Prod. in Tonnes 100 (58).

FAMILY PLANNING

THE population of India was about 518 million in 1968. The population in the country is increasing annually at 25 per thousand with the net addition of 13 million people in the country every year. India has taken up family planning on Governmental level.

The Fourth Five-Year Plan has provided a sum of Rs. 229 crores for the programme and the aim is to reduce the birth rate of 41 per thousand to 23 per thousand in about 10 years time by voluntary adoption of any of the available family planning methods by the 90 million couples in the reproductive age group 15-45 years. This is sought to be achieved by a four point programme consisting of effective (1) Mass education and motivation; (2) Training of medical, paramedical, extension education and other personnel; (3) Supplies and services and (4) Research in all fields — communication and motivation, demography, medical and biological.

ORGANIZATIONAL SET-UP

Family Planning has been a state subject. A separate department of Family Planning has been created in the Ministry of Health, F.P. & Urban Development with the Commissioner for Family Planning as the technical head. To establish liaison with the State, six Regional Directors have been appointed. The states have established State Family Planning and District Family Planning Bureaus and the Primary Health Centres for family planning work. In the urban areas one clinic against almost every population of 50,000 has been established. In the rural areas 5,080 Family Planning Centres have been in position by the end of December 1968.

Expert advice and consultation on technical matters are provided to the Department of Family Planning by various committees.

TRAINING

A Central corps of Family Planning doctors has been created to offer the services of doctors to needy states. Five Central Training Institutes namely :—

1. Central Family Planning Institute, New Delhi;
2. Central Health Education Bureau, New Delhi;
3. All India Institute of Hygiene & Public Health, Calcutta;
4. Family Planning Training & Research Centre, Bombay;
5. Institute of Rural Health & F.P., Gandhigram, have been established to train the key personnel. Besides, 42 Regional Training Centres have been set up to train mainly the paramedical and non-medical staff. Training efforts are also being supplemented by the sixteen Central Family Planning Field Units established against one in each State.

RESEARCH

At present there are eight demographic Research Centres one each at Dharwar, Delhi, Lucknow, Calcutta, Patna, Poona, Baroda and Bombay. Similarly 8 Family

Planning Communication Action Research Projects have been functioning at: (1) Planning Research & Action Institute, Lucknow; (2) University of Kerala, Trivandrum; (3) Indian Statistical Institute, Calcutta; (4) Central Family Planning Institute, New Delhi; (5) Institute of Rural Health & Family Planning, Gandhigram; (6) Utkal University, Bhubaneswar; (7) India International Centre, New Delhi; (8) Shri V. T. K. Institute of Rural Development, Baroda.

Medical and Bio-medical studies on various aspects of Family Planning are being carried out at the various institutions and universities in New Delhi, Calcutta, Lucknow, Ahmedabad, Bombay and Chandigarh under the overall control of Indian Council of Medical Research. The main aim of bio-medical research is to bring out new contraceptives like the injectible contraceptives, etc. and study the effects of contraceptives currently in use.

EDUCATIONAL AND MOTIVATION

At 22 Radio Stations special Family Planning Cells have been established to relay Family Planning Programme, Special Family Planning Publicity Units have been established under the Ministry of Information and Broadcasting. Exhibition Units by the Central and State Governments have also been set up. Various feature films, documentaries and slides have been prepared for use in cinema houses all over the country.

Some States have provided schemes for the appointment of Family Planning Sahayakas with suitable honorarium.

SUPPLIES AND SERVICES

With the target of approaching 90 million couples in the reproductive age group for adopting one or the other contraceptive methods a net work of mobile and static services is being provided through 7,057 static and 754 mobile units, 1,806 urban centres and 5,130 rural centres with over 19,000 sub-centres and 9,000 other medical institutions where family planning advice and supplies are available.

By the end of September 1968 about 5 million sterilization operations were performed and 2.6 million loops inserted. It is estimated that in a single year 1967-68 only about 1.2 million births were prevented.

ACHIEVEMENTS

Sterilizations and introduction of loops respectively, in the States: Andhra Pradesh 3,66,485; 1,27,396; Assam 33,203; 93,596; Bihar 2,69,282; 87,732; Gujarat 2,79,078; 1,50,525; Haryana 35,257; 1,23,309; Jammu & Kashmir 23,178; 28,953; Kerala 2,63,774; 1,31,665; Madhya Pradesh 3,94,344; 1,02,277; Maharashtra 7,92,169; 3,04,825; Mysore 2,90,366; 2,15,545; Orissa 2,73,249; 75,997; Punjab 1,53,752; 3,74,387; Rajasthan 1,04,689; 62,855; Tamil Nadu 7,29,941; 26,627; Uttar Pradesh 4,62,336; 3,02,259; West Bengal 3,92,010; 2,74,590; Nagaland, Union Territories & Central Govt. Institutions 64,277; 79,248; Total 50,20,540; 26,08,667.

FOURTH FIVE YEAR PLAN*

(1969-74)

PLAN IN OUTLINE

Size of the Plan and Pattern of Outlay :

A total outlay of Rs. 24,398 crores is envisaged for the Fourth Plan. Of this the public sector outlay will amount to Rs. 14,398 crores while the investment in the private sector is anticipated to be Rs. 10,000 crores. In the public sector Rs. 12,252 crores have been provided for investment and Rs. 2,146 crores for current outlay. The total investment for the creation of productive assets

aggregates to Rs. 22,252 crores. Table I indicates the distribution of the public and private sector outlays by major heads of development.

The estimates of development outlays do not include most of the expenditures by local bodies out of their own resources on development schemes. Expenditure on the maintenance of development services and institutions established during the earlier Plans as well as the Annual Plan years (1966-69) will be provided for in the normal budgets and does not form part of the Plan outlay.

TABLE 1 Fourth Plan — Outlay and Investment : Public and Private Sectors

Head of development	Public sector				Private sector		Public and Private sectors		
	total outlay	current outlay	invest-ment	Percent- age distri- bution of total outlay	invest-ment	percent- age distri- bution	total invest- ment (4 + 6)	total outlay (2 + 6)	percent- age distri- bution
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Agriculture and allied sectors	2,217	550	1,667	15.4	1,800	18.0	3,467	4,017	16.5
Irrigation and flood control..	964	14	950	6.7	..	..	950	964	3.9
Power	2,085	..	2,085	14.4	50	0.5	2,135	2,135	8.7
Village and small industries..	295	111	184	2.1	500	5.0	684	795	3.3
Industry and minerals ..	3,090	35	3,055	21.5	2,150	21.5	5,205	5,240	21.5
Transport and Communica- tions	3,173	40	3,133	22.0	1,010	10.1	4,143	4,183	17.2
Education	802	539	263	5.6	50	0.5	313	852	3.5
Scientific research	134	41	93	0.9	..	..	93	134	0.5
Health	437	305	132	3.0	..	..	132	437	1.8
Family planning	300	250	50	2.1	..	..	50	300	1.2
Water supply and sanitation	339	2	337	2.4	..	..	337	339	1.4
Housing and urban develop- ment	171	..	171	1.2	2,680	26.8	2,851	2,851	11.7
Welfare of backward classes..	134	134	..	0.9	..	..	..	134	0.5
Social welfare	37	37	..	0.3	..	..	..	37	0.2
Labour welfare and craftsmen training	37	18	19	0.3	..	..	19	37	0.2
Other programmes	183	70	113	1.2	..	..	113	183	0.7
Inventories .. .. .	..	..	..	..	1,760	17.6	1,760	1,760	7.2
Total	14,398	2,146	12,252	100.0	10,000 ¹	100.0	22,252	24,398	100.0

¹ Exclusive of transfers of public funds.

TABLE 2 Distribution of Public Sector Outlays : Centre, Centrally Sponsored, States and Union Territories
(Rs. crores)

Head of development	Centre	Centrally sponsored	Union Territories	States	Total
(1)	(2)	(3)	(4)	(5)	(6)
Agriculture and allied sectors..	694.3	100.0	69.8	1,353.4	2,217.5
Irrigation and flood control..	23.5	..	11.8	928.5	963.8
Power	252.0	14.0	74.2	1,744.3	2,084.5
Village and small industries ..	145.0	5.1	10.2	134.4	294.7
Industry and minerals ..	2,910.0	..	3.5	176.4	3,089.9
Transport and communications	2,610.0	40.0	85.7	437.4	3,173.1
Education	231.0	28.0	50.3	492.3	801.6

* Source : Fourth Five Year Plan (1969-74) Draft by the Planning Commission, Government of India. See also under "Late Particulars" for details about States' and Union Territories' Fourth Plan Outlays.

TABLE 2 Distribution of Public Sector Outlays : Centre, Centrally sponsored, States and Union Territories—(Concl'd.)
(Rs. crores)

Head of department	Centre	Centrally sponsored	Union Territories	States	Total
(1)	(2)	(3)	(4)	(5)	(6)
Scientific research	134.0	..	..	..	134.0
Health	53.5	176.5	19.3	188.2	437.5
Family planning .. ..	..	300.0	..	..	300.0
Water supply and sanitation ..	0.3	2.0	33.3	303.3	338.9
Housing and urban and regional development ..	34.0	..	20.6	116.1	170.7
Welfare of backward classes ..	0.5	59.5	4.2	70.1	134.3
Social Welfare	23.3	2.0	1.8	10.1	37.2
Labour welfare and craftsmen training	9.2	..	2.8	25.1	37.1
Other programmes	86.0 ¹	..	10.4	86.4 ²	182.8
Total	7,206.6	727.1	397.9	6,066.0	14,397.6

¹ Break-up is as follows : rehabilitation (Rs. 66.0 crores), statistics (Rs. 4.4 crores), information and publicity (Rs. 5.0 crores), expansion of printing capacity (Rs. 10.0 crores), and research programmes committee (Rs. 0.6 crores).

² Inclusive of outlays for special and backward areas, information and publicity, state capital projects, evaluation etc.

TARGETS AND ESTIMATES

The targets aimed at and results anticipated in selected fields are indicated in table 3 :

TABLE 3 Selected Targets and Estimates

Item	Unit	1968-69 estimated	1973-74 targets/estimates
<i>Agriculture and allied sectors</i>			
Foodgrains production	mill. tonnes	98 ¹	129
Sugarcane (in terms of gur)	mill. tonnes	12.0 ¹	15
Oilseeds	mill. tonnes	8.5 ¹	10.5
Cotton	mill. bales	6.0 ¹	8
Jute	mill. bales	6.2 ¹	7.4
Tea	thou. tonnes	418	450
Tobacco	thou. tonnes	380	480
High yielding varieties (area covered)	mill. hectares	8.5	24.1
<i>Consumption of fertilisers</i>			
Nitrogenous (N)	thou. tonnes	1,400	3,700
Phosphatic (P ₂ O ₅)	thou. tonnes	400	1,800
Potassic (K ₂ O)	thou. tonnes	180	1,100
Plant protection (area covered)	mill. hectares	54	80
Short and medium term loans advanced by primary co-operative credit societies	Rs. crores	450	750
Membership of agricultural co-operative credit societies	mill. nos.	30	42
<i>Area irrigated (gross)</i>			
Major and medium	mill. hectares	17	21.2
Minor	mill. hectares	19	22.2
Agricultural pump-sets energised	thou. nos.	1,069	1,240
<i>Industry and minerals</i>			
Steel ingots	mill. tonnes	6.5	10.8
Alloy and special steel	thou. tonnes	43	270

TABLE 3 Selected Targets and Estimates—(cont'd.)

Item	Unit	1968-69 estimated	1973-74 targets/estimates
Aluminium	thou. tonnes	120	220
Machine tools	Rs. crores	25	65
Sulphuric acid	thou. tonnes	1,020	3,500
Caustic soda	thou. tonnes	314	500
Soda ash	thou. tonnes	390	550
Refining capacity in terms of crude throughput	mill. tonnes	16.13 ²	26
Petroleum crude	mill. tonnes	5.8	9.7
Paper and paper board	thou. tonnes	640	960
Plastics	thou. tonnes	53	210
<i>Fertilisers production</i>			
Nitrogenous (N)	thou. tonnes	550	3,000
Phosphatic (P ₂ O ₅)	thou. tonnes	220	1,500
Cement	mill. tonnes	12.5	18
<i>Cloth</i>			
Mill-made	mill. metres	4,400	5,100
Man-made fabrics	mill. metres	975	1,500
Handloom, powerloom and khadi	mill. metres	3,400	4,250
<i>Minerals</i>			
Iron ore	mill. tonnes	26	53.4
Coal excluding lignite	mill. tonnes	69.5	93.5
Power	mill. kw.	14.5	22
<i>Transport</i>			
Railway freight carried	mill. tonnes	203	265
Surfaced roads	thou. kms.	317	367
Commercial vehicles on road	thou. nos.	380	585
Shipping tonnage	mill. GRT	2.1	3.5
<i>Education :</i>			
<i>General Education</i>			
Students in schools technical education admission capacity	mill. nos.	75.2	97.2

¹ Base level.

² Relates to calendar year.

TABLE 3 Selected Targets and Estimates—(Concl'd.)

Item	Unit	1968-69 estimated	1973-74 targets/ estimates
<i>Educ. : Concl'd.</i>			
Degree	thou. nos.	25	25
Diploma	thou. nos.	48.6	48.6
<i>Health and Family Planning</i>			
Hospital beds ..	thou. nos.	255.7	281.6
Doctors practising in family planning centres	thou. nos.	102.5	137.9
Rural	numbers	4,840	5,225
Urban	numbers	1,856	1,856

MACRO-ECONOMIC PROJECTIONS FOR THE FOURTH PLAN

The increase in per capita income over the Plan period will be about 3 per cent per year. In order to realise the rate of growth postulated, it will be necessary to step up the rate of domestic savings from the level of 8 per cent in 1967-68 to 12.6 per cent and that of investment from 11.5 per cent to 13.8 per cent by the end of the Plan. The increase in foodgrains output visualised in the Plan will enable the country to dispense with concessional food imports by 1970-71. Efforts will be made to limit the growth of non-food imports to 5 per cent per year while securing an annual increase of 7 per cent in exports. As a result, the requirements of foreign aid, net of debt repayment and interest payments, in the terminal year of the Plan will be brought down to half its present level. Table 4 gives a few selected macro-economic projections for the Fourth Plan.

TABLE 4 Macro-Economic Projection : 1967-68 and 1973-74

Item	Unit	1967-68	1973-74
National income ..	Rs. crores at 1967-68 prices	27,933	38,100
Population (mid-year October 1) per capita income ..	million Rs.	514	596
Domestic savings as percentage of national income..	per cent	8	12.6
Net investment as percentage of national income..	per cent	11.5	13.8
Per capita private consumption ..	Rs.	494	559

RESOURCES FOR THE FOURTH PLAN

Table 5 presents the scheme of financing the Fourth Plan.

TABLE 5 Estimates of Resources for the Fourth Plan (Rs. crores)

Item	Centre	States	Total
Budgetary resources other than negotiated loans from LIC and state enterprises' market borrowings..	6,868	1,114	7,982

Table 5
Estimates of Resources for the Fourth Plans—(Concl'd.)
(Rs. crores)

Item	Centre	States	Total
Balance from current revenues at 1968-69 rates of taxation ..	2,355	100 ¹	2,455
Surplus of public enterprises at 1968-69 fares, freights and tariffs ..	1,175	555	1,730
Railways	265	..	265
Others	910	555	1,465
Retained profits of Reserve Bank ..	133	32 ²	165
Market borrowings of central and state governments (net) ..	750	416	1,166
Small savings ..	274	526	800
Annuity deposits, compulsory deposits, prize bonds and gold bonds	(-)104	..	(-)104
State provident funds	343	297	640
Miscellaneous capital receipts (net) ..	1,942	(-)812 ³	1,130 ⁴
Loans from LIC and state enterprises' market borrowings (gross) ..	..	343	343
LIC loans to state governments for housing and water supply ..	..	96	96
Market borrowings of state enterprises ..	..	116	116
LIC loans to state enterprises .. ..	..	131	131
Budgetary receipts corresponding to external assistance (net) ..	2,514	..	2,514
Other than PL 480 ..	2,134 ⁵	..	2,134 ⁴
PL 480 assistance ..	380	..	380
Total budgetary resources @	9,382	1,457	10,839
Additional resource mobilisation	1,600 ⁵	1,109	2,709
Deficit financing ..	850	..	850
Aggregate resources*	11,832	2,566	14,398
Assistance for state plans	(-)3,500	3,500	..
Net resources — plan outlay † ..	8,332	6,066	14,398

¹ This estimate pertains to four States only and assumes that other States will balance their non-Plan revenue budgets.

² Reserve Bank loans to State Governments for participation in share capital of co-operatives.

³ Inclusive of local bodies' contribution of Rs. 50 crores and loan repayments by State Governments' enterprises.

⁴ Net of loan repayments only. Interest payments have been allowed for in calculating the balance from current revenues.

⁵ Net of States' share.

@ Includes budgetary resources, loans from L.I.C. and State enterprises' market borrowing and budgetary receipts corresponding to external assistances.

* Includes total budgetary resources, additional resource mobilisation and deficit financing.

† Aggregate resources and assistance for State Plans.

The scale of resource mobilisation envisaged in the above scheme will materialise only if appropriate policy decisions are taken well in time and the various development programmes effectively implemented to secure the overall and sectoral rates of growth.

PRIVATE INVESTMENT

Firm estimates of private savings are not available. On a rough calculation the private sector is expected to generate savings amounting to Rs. 13,900 crores during the Fourth Plan. The household and co-operative sectors will contribute Rs. 12,040 crores and the balance of Rs. 1,860 crores will be contributed by the corporate sector. The Central and State Governments will draw on this pool of private savings as much as Rs. 3,930 crores for the public sector Plan. Private savings thus available for private investment would amount to Rs. 9,970 crores. Adding to it the net amount of foreign funds directly flowing to the private sector, the total resources available for private investment would aggregate to Rs. 10,000 crores. The break-up of this total is:

TABLE 6 Resources Available for Private Investment

Item	Fourth Plan investment (Rs. crores)
Private savings	13,900
Corporate savings	1,860
Household and co-operative savings ..	12,040
Central and state government draft on private savings	3,930
Private savings available for private investment	9,970
Gross loans and investment from abroad	300
Repayment of foreign loans	270
Net inflow of foreign funds	30 ¹
Total resources available for private investment	10,000

¹ Net of loan repayments only. Interest payments have been taken into account under item 1.

BUDGETARY POSITION OF STATES : 1969-70

(Rs. crores)

States	Revenue	Revenue Account		Surplus (+) or Deficit (-) on capital Account	Overall Surplus (+) or Deficit (-) (4) + (5)	Opening balance	Closing balance (6) + (7)
		Expenditure	Surplus (+) or Deficit (-)				
1	2	3	4	5	6	7	8
1. Andhra Pradesh ..	279.91	288.47	- 8.56	+ 8.56	-	- 45.94	- 45.94
2. Assam	99.46	107.71	- 8.25	- 26.10	- 34.41	- 15.99	- 50.00
3. Bihar	180.75	211.88	- 31.13	+ 0.40	- 30.73	- 22.34	- 53.07
4. Gujarat	165.83	187.04	- 21.21	- 9.04	- 30.25	- 6.12	- 36.37
5. Haryana	78.34	79.79	- 1.45	+ 0.20	- 1.25	- 6.50	- 7.75
6. Jammu & Kashmir ..	58.21	67.41	- 9.20	-	- 9.20	+ 2.17	- 7.03
7. Kerala	135.27	146.70	- 11.43	- 8.63	- 20.06	- 2.37	- 22.43
8. Madhya Pradesh ..	187.35	210.44	- 23.09	+ 0.03	- 23.06	- 7.03	- 30.09
9. Maharashtra	351.32	390.59	- 39.27	+ 43.35	+ 4.08	- 17.85	- 13.77
10. Mysore	213.26	226.49	- 13.23	- 18.37	- 31.60	+ 1.66	- 29.94
11. Orissa	118.64	130.92	- 12.28	- 13.65	- 25.93	+ 0.25	- 25.68
12. Punjab	127.08	129.78	- 2.70	- 6.75	- 9.45	- 1.49	- 10.94
13. Rajasthan	144.53	174.34	- 29.81	+ 8.09	- 21.72	+ 0.38	- 21.34
14. Tamil Nadu	263.06	285.37	- 22.31	- 2.81	- 25.12	+ 0.55	- 24.57
15. Uttar Pradesh ..	360.43	403.51	- 43.08	+ 7.46	- 36.57	+ 0.95	- 35.63
16. West Bengal	234.77	254.55	- 19.78	+ 7.06	- 12.72	- 22.64	- 35.36
Total: All States ..	2,998.21	3,294.99	- 296.78	- 11.21	- 307.99	- 141.91	- 449.90

SHIPPING COMPANIES AND AIRWAYS

SHIPPING COMPANIES

AMERICAN EXPORT ISBRANDTSEN LINES INC., NEW YORK

Agents :—Lionel Edwards Ltd., 41, Nicol Road, B. Estate, Bombay; Pierce Leslie (India) P. Ltd.: Beach Road, Alleppey; P. Box 565, Cochin; Bunder Road, Mangalore; Kozhikode; Quilon; The Bombay Co. (Private) Ltd., 169, Broadway, Madras; Lionel Edwards Ltd., 21, Old Court House Street, Calcutta; Lionel Edwards Ltd., New Delhi; India Steamship Co. Ltd., Visakhapatnam; American Export Isbrandtsen Lines Inc., 21, Old Court House Street, Calcutta.

India Service fortnightly sailings between New York and other U.S. North Atlantic Ports *via* Egypt, Lebanon and the Suez Canal and Ports in the Gulf of Suez, Red Sea, Gulf of Aden, Pakistan, India, Ceylon and Burma. Calls at other ports may be made.

AMERICAN PRESIDENT LINES LIMITED

Fortnightly sailings from Cochin, Mangalore, Bombay, Karachi to United States.

General Agents :—

BOMBAY—Forbes Forbes Campbell & Co., Ltd., Home Street, Fort; CALCUTTA—McLeod & Co. Ltd., 3, Netaji Subhas Road; MADRAS—South Indian Export Co. Ltd., Post Box No. 37, McLean Street; COCHIN—Madura Co. Private Ltd., P.O. Box No. 6; MANGALORE—Canara Shipping Corporation, P.O. Box 23.

APEEJAY LINES

Owners : Surrendra Overseas Ltd., 15, Brabourne Road, Calcutta.

Branches :

Bombay : Steelcrete House, 3 Dinshaw Wachha Road, Bombay 1.

New Delhi : Jeevan Vihar, Parliament Street.

Madras : 312, Thambu Chetty Street, Madras 1.

BROCKLEBANKS' CUNARD SERVICES

Agents :

Turner Morrison & Co., Ltd., 6, Lyons Range, Calcutta 1; Ripley & Co., Ltd., P.O. Box No. 39, Visakhapatnam.

Service to Wilmington (Del), Norfolk, Newport News, Wilmington (N.C), Charleston, Savannah, Mobile, Gulfport, New Orleans, Galveston, Houston and Brownsville.

CHOWGULE STEAMSHIPS LTD.

Registered Office : Mormugao Harbour (Goa).

Bombay Office : 'India House', opp. G.P.O., Bombay-1.

Number of Vessels : 7 (2 Bulk Carriers). Total DWT : 71,138.

3 Passenger-cum-cargo ships, 2 Passenger ships.

Passenger-cum-Cargo Service : From Bombay to Panaji (Goa).

Cargo Service : On Indian coast and overseas.

CITY LINE LTD.

Agents :

Best & Co., Private Ltd., Madras, P.O. Box 63; Gladstone Lyall & Co., Ltd., Visakhapatnam & 4, Fairlie Place,

Calcutta-1; Killick, Nixon & Co., Ltd., Post Box 109, Home Street, Bombay & Mormugao Harbour, Goa; Aspinwall & Co., Ltd., Fort Cochin.

DAMODAR BULK CARRIERS LTD.

4, Ballard Road, Bombay 1.

DEMPO STEAMSHIPS LIMITED

Regd. Office : Campal, Panaji, Goa.

Admn. Office : Moti Mahal, J. Tata Road, Bombay 20.

ELLERMAN & BUCKNALL STEAMSHIP CO. LTD.

General Agents :—

BOMBAY—Forbes Forbes Campbell & Co., Ltd., Home Street, Fort; CALCUTTA—Gladstone Lyall & Co., Ltd., 4, Fairlie Place; MADRAS—Best & Co. Private Ltd., Post Box No. 63; COCHIN—Aspinwall & Co. Private Ltd., P.O. Box No. 2.

ELLERMAN'S CITY AND HALL LINES

From Glasgow and Liverpool to Calcutta, Bombay, Kathiawar Ports, Karachi and Malabar Coast Ports and back to London, Liverpool and Glasgow.

Agents :

BOMBAY—Killick, Nixon & Co. Ltd.; CALCUTTA—Gladstone Lyall & Co., Ltd.; MADRAS—Best & Co. Private Ltd.; MORMUGAO—Killick, Nixon & Co., Ltd.

HARRISON LINE

BROCKLEBANK LINE

L. SMITH CO'S INTERNATIONALE

SLEEPDIENT, ROTTERDAM

HINODE KISEN CO. LTD., TOKYO

Agents : Killick, Nixon & Co. Ltd., Home Street, Fort, Bombay.

EVERETT ORIENT LINE

Calcutta Agents : Everett Steamship Corporation, G.P.O. Box 25, Calcutta.

JOHNSON LINE

Bombay Agents : Everett Steamship Corporation, Post Box 523, Bombay.

AMERICAN MAIL LINE

Bombay & Calcutta Agents : Everett Steamship Corporation.

WATERMAN STEAMSHIP CORPORATION

Bombay Agents : Everett Steamship Corporation, P.O. Box 523, Bombay-1; *Calcutta Agents* : Everett Steamship Corporation, G.P.O. Box 25, Calcutta 1.

Service : U.S.A. East Coast Ports to India.

THE GREAT EASTERN SHIPPING CO., LTD.

Registered Office :—Mercantile Bank Building, 60 Mahatma Gandhi Road, Bombay 1; *Branch Office* :—5, Clive Row, Calcutta 1; *Delhi Office* : 13, Rajdoot Marg, New Delhi.

Operations : Owns and operates a fleet of 15 ships including two Bulk Carriers and a Tanker, Operates liner services on the Indian Coast and from West Coast U.S.A., West Coast Canada to India. Also Tramp shipping all over the world.

HANSA LINE

Agents :

Calcutta : Hansa Line, Ilaco House, Ground Floor, 1-3, Brabourne Road, P.O. Box 2698; *Bombay* : Shaw Wallace & Co., Ltd., 3, Wittet Road, P.B. 203, Bombay 1; *Madras* : 8-9, Thambu Chetty Street, P.O. Box 14, Madras 1.

Fortnightly sailings from North Continental Ports to India, Pakistan, Ceylon and Burma; Regular monthly sailing from Calcutta to Persian Gulf Ports.

HARSHA TANKERS & SHIPPING AGENCY

4th Floor, "Mirabelle," 33A, New Marine Lines, Bombay 1.

Steamship Agents & Operators of Tankers & Bulk Carriers.

Represented at Kandla, Goa, Cochin, Tuticorin, Madras, Visakhapatnam & Calcutta.

INDIA STEAMSHIP COMPANY, LTD.

Head Office : 21, Old Court House Street, Calcutta 1; *Branch Offices* : Contractor Building, 41, Nicol Road, Bombay 1; Godavari Street, Visakhapatnam 1; 'Suryabagh', Commercial Road, Kakinada.

Agents : (a) The Bombay Co. (Private) Ltd., Willingdon Island, Cochin 3; (b) Ananthakrishna & Co., 16, First Line Beach, Madras 1; (c) Bombay Co. Pvt. Ltd., Beach Road, Tuticorin; *Saurashtra Agents* : J. M. Baxi & Co.

Service to : (a) From Bombay to the U.K./Continent; (b) From Calcutta : (1) Calcutta U.K./Continent; (2) Calcutta/South America; (c) Indo-Soviet Service, i.e., from Calcutta and Bombay to Black Sea Ports; (d) Indo-Polish Service, from Calcutta and Bombay to Polish ports and *vice versa* : (e) India-GDR Service, from Calcutta and Bombay to GDR and *vice versa* : (f) Indo-UAR Service, from Calcutta and Bombay to UAR and *vice versa* : (g) India-Adriatic Service, from Calcutta and Bombay to Adriatic ports (Venice, Trieste, Rijeka etc.) and *vice versa* : (h) Adriatic/West Asian Gulf Service, from Adriatic ports to West Asian Gulf ports.

JAVA BENGAL LINE

Branch Office of N. V. Stoomvaart Maatschappij "Nederland".

5 & 7, Netaji Subhas Road, Calcutta 1. P.O. Box 71.

In all ports on East and West Coast except Calcutta : Patel Volkart Ltd. represent their Lines.

The following lines are represented by them in India, with vessels calling at Indian ports :

Nedlloyd Line : Sailings between India, East Pakistan, Philippines and USA/Canadian West Coast Ports.

Nedlloyd Latin America & Caribbean Service : Sailings from Calcutta and East Pakistan Ports to West Coast of South America and Caribbean Ports *via* Straits, Hong Kong and Japan.

Holland-Bengal-Burma Line : Sailings between Indian East Coast ports *via* Red Sea and Port Said to North Continental ports accepting through cargo for Mediterranean and Scandinavian ports.

JAYANTI SHIPPING COMPANY LTD.

(See under Government Industrial Undertakings)

LLOYD TRIESTINO

Neville House, Ballard Estate, Bombay 1.

De Luxe Passenger cum Cargo Service from Bombay to Venice/Trieste *via* African and Spanish Ports. Cargo

Service from East and West Coasts of India to Italian and Mediterranean Ports.

MACKINNON MACKENZIE & CO. PRIVATE LTD.

4, Ballard Road, Ballard Estate, P.O. Box 122, Bombay.

Agents for : British India Steam Navigation Co. Ltd., P & O Lines Ltd., States Marine Lines, Isthmian Lines Inc., Bank Line Ltd., Union Steamship Co. of New Zealand Ltd., Hain-Nourse Ltd., Damodar Bulk Carriers Ltd., South India Shipping Corporation Ltd.

BRITISH INDIA STEAM NAVIGATION CO. LTD.

Agents : Mackinnon Mackenzie & Co. P. Ltd., Bombay; 16, Strand Road, Calcutta; Binny & Co. Ltd., 7, Armenian St., Madras 1.

ISTHMIAN LINES, INC.

Agents : Mackinnon Mackenzie & Co. P. Ltd., Bombay; Angus Co. Ltd., 3, Clive Row, Calcutta; A. V. Thomas & Co. Ltd., Willingdon Island, Cochin; Binny & Co. Ltd., Madras.

Agents at other trading ports. Main trading ports : Bombay, Bhavnagar, Kandla, Calcutta, Kozhikode, Cochin, Madras, Mangalore, Mormugao, Navlakhi, Port Okha, Quilon, Tuticorin, Visakhapatnam.

MALABAR STEAMSHIP COMPANY LTD.

Darabsha House, 10, Shoorji Vallabhdas Road, Fort, Bombay 1.

Branches : Calicut, Cochin, Alleppey and Calcutta.

From Bombay to Calicut-Cochin-Tuticorin and Colombo as per demand. From Bombay to Saurashtra Ports. From Calcutta to Rangoon. From Calcutta to Madras-Tuticorin-Cochin and also touch Colombo according to demand. From Indian Ports to Overseas.

MAERSK LINE

Agents : Patel-Volkart Ltd., Shipping Dept., 19, Graham Road, Ballard Estate, Bombay 1.

Japan/India/Pakistan/Persian Gulf and *vice versa*.

HOEGH LINES

From U.S. Gulf and Atlantic Ports to West Coast of India and *vice versa*.

NEDLLOYD & HOEGH LINES

From India to Manila and West Coast of U.S.A. and Canada, and *vice versa*.

MESSAGERIES MARITIMES

19, Graham Road, Ballard Estate, Bombay 1.

Agents :

BOMBAY, MARMAGOA, TUTICORIN—Patel-Volkart Limited; COCHIN & MALABAR PORTS—C. J. Revel; MADRAS & COROMANDEL PORTS—C. J. Revel; CALOUTTA—Cruickshank & Co., Limited.

Services :

Passenger service from Bombay to Marseilles (west-bound) and to Colombo, Singapore, Bangkok, Hong Kong, Kobe, Yokohama (eastbound).

Cargo Service from East and West Coast India to Mediterranean and North Continental Ports and *vice versa*.

UNITED NETHERLANDS NAVIGATION CO.

Agents : Patel (Volkart) Limited, Bombay 1.

Sailings from India to North Continental and Mediterranean ports and *vice versa*.

mitsui O. S. K. LINE*Agents :*

BOMBAY : Orient Ship Agency Private Ltd., Orient House, Mangalore St., B. Estate, Bombay 1 ; CALCUTTA : F. W. Heilgers & Company (P) Ltd., No. 1, India Exchange Place, Calcutta 1 ; COCHIN : Sorabji & Co. Pvt. Ltd., Ahura House, Jew Town, Mattancherry, Cochin 2 ; MADRAS, KAKINADA AND VISAKHAPATNAM : International Clearing and Shipping Agency, 312/13, Linghi Chetty St., Madras ; TUTICORIN : A. & F. Harvey Ltd., Tuticorin.

JAPAN/INDIA/PAKISTAN LINE ; JAPAN/BENGAL LINE ; WESTBOUND ROUND-THE-WORLD SERVICE.

THE MOGUL LINE LTD.*(See under Government Industrial Undertakings)***NEW INDIA MARITIME AGENCIES PVT. LTD.**

119/120, Armenian Street, Madras 1.

Steamer Agents and ships operators.

Branches : Bombay—Kandla—Cochin—Calicut—Alleppey—Tuticorin—Kakinada—Visakhapatnam—Calcutta—New Delhi.

N. Y. K. LINE

Agents : Indian Maritime Enterprises Pvt. Ltd., Darabshaw House, Ballard Road, Bombay 1 ; The Bombay Co. Private Ltd., P.O. Box 109, Broadway, Madras-1 ; James Finlay & Co. Ltd., 2, Netaji Subhas Chandra Road, Calcutta.

(i) Japan/India/Pakistan/Persian Gulf. (ii) Japan/Calcutta.

ORIENT MID-EAST LINES, NEW YORK

Agents : Indian Maritime Enterprises Pvt. Ltd., Darabshaw House, Ballard Road, Fort, Bombay.

U.S.A. & Canada—India.

PENT OCEAN STEAMSHIPS P. LTD.

Fort House, 221, Dr. D. Naoroji Road, Bombay 1.

Company incorporated in 1965 ; has at present a total D. W. T. of 42,826 consisting of four ships and are plying between : Indian Coast ; India/Burma ; India/Ceylon ; India/Far East ; India/U.K. & Continent. The Company also charters Foreign Flag vessels to bring food grains from U.S.A. to India.

POLISH OCEAN LINES

India Line—India/Pakistan/Burma/Ceylon.

Bombay Branch : The Polish Ocean Lines, Bharat Insurance Bldg., 15/A, Horniman Circle, Fort, Bombay 1.

Agents : Khemka & Co. (Agencies) Private Ltd., 202/A, Veer Nariman Road, Churchgate Reclamation, Bombay 1 ; International Clearing and Shipping Agency, 312/313, Linghi Chetty St., Madras 1 ; Khemka & Co. (Agencies) Pvt. Ltd., 31/32, India Exchange Place Extn., Calcutta 1.

RATNAKAR SHIPPING COMPANY LTD.

16, Strand Road, Calcutta 1.

Managing Agents : Birla Ltd.

Agents in India : (West Coast & East Coast) Shaw Wallace & Co. Ltd., Wallace House, 3, Wittet Road, Bombay 1 ; 8/9, Thambu Chetty St., Madras 1.

Services : Overseas tramp cargo service and Indian Coastal cargo service.

ROYAL INTEROCEAN LINES*Agents :*

BOMBAY : Forbes Forbes Campbell & Co., Ltd., Home Street, Fort ; ALLEPPEY : Darragh, Small & Co. Ltd., P.O. Box No. 50 ; COCHIN : Darragh, Small & Co., (India) Ltd., Willingdon Island, P.O. Box No. 22.

Monthly sailings from Bombay, Alleppey and Cochin via Colombo, Malaysia and Indonesia to Australia.

SCINDIA STEAM NAVIGATION CO., LTD.*Scindia House, Dougall Road, Ballard Estate, Bombay.*

Coastal Services : Cargo Services : India, Pakistan, Burma, Ceylon.

Overseas Services : Regular services : India-Pakistan/U.K. Continent ; India/Levant Ports/U.S.S.R. (Black Sea Ports) ; India/U.S.A. ; India/Great Lakes/Eastern Canada/Malaysian Ports ; India/U.S. Pacific Ports/Canada via Far East Ports ; India/U.A.R.

THE SHIPPING CORPORATION OF INDIA LTD.*(See under Government Industrial Undertakings)***SOUTH EAST ASIA SHIPPING COMPANY PVT. LTD.**

Himalaya House, Dr. Dadabhai Naoroji Road, Bombay 1.

Agents at all Principal ports in India and in West Asia (Gulf) Ports at Dammam, Dubai, Abu Dhabi, Bahrain, Kuwait, Khorramshahr and Basra, also at Colombo and Rangoon, Akyab and Bassein in Burma.

Steamers ply between India/West Asia Gulf Ports, India/Ceylon, India/Burma. The Main ports of call in India are : Bombay, Mormugao, Cochin, Tuticorin, Madras, Vizagapatnam, and Calcutta, also Okha, Sikka, Bedi, Kandla, Veraval, Porbunder and Bhavnagar.

SOUTH INDIA SHIPPING CORPORATION LTD.

'Dhun Building', 175/1, Mount Road, Madras-2.

Operates 5 bulk carriers (two of 43,204 DWT and three of 43,124 DWT), largest on Indian registry, in worldwide tramp shipping trade.

UNITED LINER AGENCIES OF INDIA (PRIVATE) LIMITED

Post Box No. 1281, Wavell House, Ballard Estate, Bombay 1.

Agents for the East Asiatic Co., Ltd., Copenhagen, Wilhelmsen Lines, Oslo & the Swedish East Asia Co., Ltd., Gothenburg. Maintains Joint Service providing weekly sailings from Scandinavia and the Continent bringing cargo destined for ports in India, Pakistan, Burma and Ceylon.

YUGOSLAV LINE ("JUGOLINIJA")*Agents :*

BOMBAY : The Oceanic Shipping Agency Pvt. Ltd., Darabshaw House, Ballard Road, Bombay-1 ; CALCUTTA : 13, Brabourne Road, Calcutta 1 ; MADRAS : Southern Shipping Corporation Pvt. Ltd., 8, Second Line Beach, Madras 1.

THE MERCHANT STEAM NAVIGATION CO. (PRIVATE) LTD. & THE AFRICANA CO. P. LTD.

289-93, Narsi Natha Street, Bombay 9.

Has branches at Calicut, Alleppey, Tellicherry & Badagara.

From Bombay to Calicut, Cochin and Tuticorin and at the same time touching other minor ports also and *vice versa* : From Bombay to Saurashtra Ports and *vice versa* ; Also touch Colombo according to demand.

P. & O. LINES

Agents :

Mackinnon Mackenzie & Co., Private Ltd., Calcutta and Bombay ; Binny & Co. Ltd., 7, Armenian Street, Madras 1.

Service : U.K., Gibraltar, Las Palmas, Dakar, Capetown, Durban, Bombay, Colombo, Straits and Japan, Freemantle, Adelaide, Melbourne, Sydney and Brisbane, Le Havre, Lisbon, Trinidad, Panama, Honolulu, Auckland,

Vancouver, San Francisco and Los Angeles to Karachi, Bombay, Madras and Calcutta (joint cargo service with B.I.S.N. Co. Ltd.).

WAVERLEY UNITED SHIPPING AGENCIES

51, "Advent," 12A, Foreshore Road, Backbay Reclamation, Bombay 1.

Agents for Constellation Line, New York.

AIRWAY COMPANIES

AEROFLOT

Representation of Aeroflot Soviet in India : C-16, Connaught Place, New Delhi 1.

MOSCOW/DELHI/SINGAPORE/DJAKARTA (Every Tuesday). DJAKARTA/SINGAPORE/DELHI/MOSCOW (Every Wednesday).

AIR-CEYLON LTD.

Connemara Annexe, Mount Road, Madras 2.

Air Ceylon operates services on the following routes :—
COLOMBO-KARACHI-ROME-LONDON and *vice versa* (Weekly).

COLOMBO-KUALA LUMPUR-SINGAPORE and *vice versa* (Weekly).

COLOMBO-MADRAS and *vice versa* (Tuesdays, Thursdays, Fridays & Sundays).

COLOMBO-TRICHY and *vice versa* (Tuesdays, Thursdays and Sundays).

COLOMBO-JAFFNA-TRICHY and *vice versa* (Mondays, Wednesdays and Fridays).

COLOMBO-BOMBAY and *vice versa* (Wednesdays and Saturdays).

AIR-FRANCE

Regional Head Office : 17, Parliament Street, New Delhi ;
Bombay : Stadium House, Vir Nariman Road, Churchgate ;
Calcutta : 41, Chowringhee Road ; *New Delhi :* Scindia House, Janpath ; *Madras :* Spencer's Buildings, Mount Road ; *Ahmedabad :* A. D. Amin & Co., Dt. Local Board Bldg., Gandhi Road ; *Ernakulam :* C. J. Revel, 27/535 M. G. Road ; *Poona :* Ramesh Travel Service, 96/97 Mahatma Gandhi Road.

ROME — ATHENS — TEL AVIV — BEYROUTH — TEHERAN — KARACHI — BOMBAY — NEW DELHI — BANGKOK — PNOM PENH — SAIGON — HONG KONG — MANILA — TOKYO.

AIR-INDIA

"Nirmal", 10th floor, 241-242, Backbay Reclamation, Nariman Point, Bombay-1.

Commercial Headquarters : Bank of India Building, 4th floor, Mahatma Gandhi Road, Bombay-1.

Other Departments at Santa Cruz Airport, Bombay-29.

Information/Booking : New India Assurance Building, Mahatma Gandhi Road, Fort, Bombay-1.

Route Network

Bombay — London — New York with alternate stopovers at Kuwait, Bahrain, Teheran, Beirut, Cairo, Rome, Geneva, Zurich, Prague, Frankfurt, Paris, Brussels, and Amsterdam.

Bombay — Bahrain — Kuwait.

Bombay — Delhi — Moscow — London.

Bombay — Aden — Addis Ababa — Nairobi.

Bombay — Nairobi — Entebbe.

Bombay — Calcutta/Delhi — Bangkok — Hong Kong — Tokyo

Bombay — Madras — Singapore — Perth — Sydney — Nandi.

Bombay — Madras — Singapore — Djakarta.

Bombay — Madras — Kuala Lumpur — Singapore — Perth — Sydney.

Bombay — Mauritius.

Unduplicated route kilometres as on March 31, 1968 : 57,603.

Aircraft : In service as on March 31, 1969 : 5 Boeing 707-437 ; 3 Boeing 707-337Bs ; 2 Boeing 707-337Cs. *On order on March 31, 1969 :* 2 Boeing 747 Jumbo Jets ; 2 Anglo-French Concorde ; 2 American SSTs.

ALITALIA

Italian Airlines, Churchgate, Bombay 1.

Douglas Super DC-8 JET—FIRST/ECONOMY/CLASS. SERVICES OPERATED EIGHT TIMES WEEKLY VIA BOMBAY.

SYDNEY — SINGAPORE — BOMBAY — ROME and return ; SYDNEY — DJAKARTA — BANGKOK — BOMBAY — ROME ; TOKYO — HONG KONG — BANGKOK — BOMBAY — ATHENS — ROME ; TOKYO — MANILA — BANGKOK — BOMBAY — TEHERAN — ROME ; ROME — ATHENS — BOMBAY — BANGKOK — DJAKARTA — SYDNEY ; ROME — TEHERAN — BOMBAY — BANGKOK — HONG KONG — TOKYO ; ROME — BOMBAY — BANGKOK — MANILA — TOKYO.

In total, Alitalia flies to 98 cities in 66 countries.

Equipped with 21 DC-8s, 40 DC-9s, 19 Caravelles.

ARIANA AFGHAN AIRLINES

Offices :—(1) F-15, Connaught Place — New Delhi. (2) Raja Travel and General Agencies, Ritz Hotel — Amritsar.

The Company operates on the following routes :

New Delhi — Kabul ; Amritsar — Kabul.

Aircraft : DC-6Bs—Convair-440.

BRITISH OVERSEAS AIRWAYS CORPORATION

Office : 202-B, Vir Nariman Road, Churchgate, Bombay 1 ; Hamilton Bldg., 1A, Connaught Place, New Delhi 1 ; 41, Chowringhee Road, Calcutta 16 ; Fagun Mansions, Commander-in-Chief Road, Madras 2 ; C/o Air India, Mahatma Gandhi Road, Ernakulam.

CESKOSLOVENSKE AEROLINE

(Czechoslovak Airlines)

Bombay Office : 3-B, Stadium House, Vir Nariman Road, Bombay 1 ; *New Delhi Office :* Hotel Metro, Janpath, New Delhi.

Routes : Prague/Athens/Cairo/Kuwait/Bombay/Rangoon/Phnom Penh/Jakarta/Phnom Penh/Rangoon/Bombay/Kuwait/Cairo/Athens/Prague.

Also : Prague/Beirut/Athens/Cairo/Bombay and vice versa.

General Sales Agents in India : Air-India.

EAST AFRICAN AIRWAYS

199, Churchgate Reclamation, Jamshedji Tata Road, Bombay 1.

Three services a week from India to East Africa and two to Far East :—

1. Bombay — Karachi — Nairobi; 2. Bombay — Karachi — Nairobi — Dar-es-Salaam; 3. Bombay — Karachi — Aden — Nairobi; 4. Bombay — Bangkok — Hong Kong; 5. Bombay — Hong Kong (*Non-stop*).

Convenient onward connections to Malawi, Zambia, South Africa, W. Africa at Nairobi.

Operates 9 services a week to the U.K. via European countries from Nairobi.

INDIAN AIRLINES

Airlines House, 113, Gurdwara Rakab Ganj Road, New Delhi.

(See under Civil Aviation)

IRANAIR

Sunder Mahal, Marine Drive, Bombay 20.

The only airline offering bi-weekly Boeing 727 services to Teheran via Karachi and then to Rome, Paris, Frankfurt, Geneva, and London. Operating daily flights *ex* Teheran for Europe and London. Offers convenient connections for Ziarat Pilgrims on the sector Teheran/Baghdad.

JAPAN AIRLINES CO., LTD.

Regional Office for India : 72, Janpath, New Delhi 1; District Office : 35A, Chowringhee Road, Calcutta-16; District Office : 86, Veer Nariman Road, Bombay-1.

The Company operates the following lines through India :—

Tokyo — Hong Kong — Bangkok — New Delhi — Teheran — Beirut — Rome — Paris — London — New York — San Francisco — Honolulu — Tokyo and *vice versa*.

Tokyo — Hong Kong — Bangkok — New Delhi — Teheran — Cairo — Rome — Frankfurt — London — New York — San Francisco — Honolulu — Tokyo and *vice versa*.

Tokyo — Hong Kong — Bangkok — Calcutta — Karachi — Cairo — Rome — Frankfurt — London and *vice versa*.

K. L. M. ROYAL DUTCH AIRLINES

1, Middleton Street, Calcutta; 9-A, Connaught Place, New Delhi; Taj Mahal Hotel, Strand Road, Bombay.

1. CALCUTTA — KARACHI — KUWAIT — CAIRO — ATHENS — ZURICH — AMSTERDAM (Westbound — Saturdays); 2. NEW DELHI — KARACHI — KUWAIT — BEIRUT — ATHENS — FRANKFURT — AMSTERDAM (Westbound — Tuesday); 3. CALCUTTA — BANGKOK — MANILA — TOKYO (Eastbound — Mondays); 4. NEW DELHI — BANGKOK — MANILA — TOKYO (Eastbound — Fridays).

MIDDLE EAST AIRLINES AIR LIBAN ASSOCIEES D'AIR FRANCE

Bombay Office : 2B, Jamshedji Tata Road, Churchgate, Bombay 1; New Delhi Office : 54, Janpath, New Delhi.

Madras Office : 5B/1, Fifth St., Rutland Gate, Nungambakkam, Madras 6.

M. E. A. routes : Bombay, Karachi, Beirut and onwards to Middle East, West Africa, Europe and U.K.

PAN AMERICAN WORLD AIRWAYS

Taj Mahal Hotel, Bombay. 42, Chowringhee Road, Calcutta. Imperial Hotel, New Delhi. 8/9, Thambu Chetty St., Madras 1. 363, Kollupitiya Rd., Colombo 3, Ceylon.

QANTAS AIRWAYS LTD.

B.O.A.C. Air Booking Centre, 202-B, Vir Nariman Road, Churchgate, Bombay 1.

Qantas operates Boeing 707 services from Sydney to London via Calcutta and New Delhi with connections for onward journeys from London to New York, Bermuda, Bahamas, Mexico City, Vancouver, San Francisco, Honolulu, Nandi, New Zealand and Sydney with other services through Tokyo, Hong Kong and the Philippines.

ROYAL NEPAL AIRLINES CORPORATION

New Delhi : Hotel Janpath, Room Nos. 13 & 14, New Delhi-1; Patna : Hassan Manzil, Fraser Road, Patna-1; Calcutta : 3, Chowringhee Approach, Calcutta-13.

The Corporation operates the following lines in India :

New Delhi — Kathmandu & Calcutta — Kathmandu (*Direct*). Calcutta — Kathmandu (*Via Biratnagar*). Patna — Kathmandu.

SABENA BELGIAN WORLD AIRLINES

Ambassador Hotel, Churchgate, Bombay 1.

One daylight flight every Thursday morning from Bombay to Brussels via Teheran, Athens and Vienna — One service every Wednesday morning from Brussels to Bombay via Vienna, Athens and Teheran.

SCANDINAVIAN AIRLINES SYSTEM

18, Park Street, Calcutta 16.

The company operates the following routes :

Tokyo to Copenhagen via Manila, Bangkok, Calcutta, Karachi, Teheran, Rome, Zurich, Frankfurt.

From Copenhagen convenient connections to the principal cities of Europe, Africa, the Middle East, North and South America.

SWISSAIR

Bombay : Manek Mahal, 90, Vir Nariman Road; Calcutta : 18, Park Street; New Delhi : 56, Janpath; Madras : Connemara Annexe.

Flights from Bombay to principal cities of Europe, USA, Canada, South America, Africa, Middle East and Far East.

THAI AIRWAYS INTERNATIONAL LIMITED

C/o General Agents

Scandinavian Airlines System,

18, Park Street, Calcutta 16.

The Company operates the following routes with Caravelle Jets :

From Calcutta to Rangoon, Bangkok, Kuala Lumpur, Singapore, Djakarta, Saigon, Hong Kong, Manila, Taipei, Tokyo, Kathmandu.

TRANS WORLD AIRLINES

Booking & Administrative Offices : Taj Mahal Hotel, Bombay.

T.W.A. Routes : BOMBAY — TEL AVIV — ATHENS — ZURICH — FRANKFURT — NEW YORK — LOS ANGELES and BOMBAY — COLOMBO — BANGKOK — HONG KONG — TAIPEH — GUAM — OKINAWA — HONOLULU — LOS ANGELES.

UNITED ARAB AIRLINES

Bombay : Eros Building, Queen's Road, Churchgate. Phone : 295862; New Delhi : Ambassador Hotel, Sujana Singh Park. Phone : 618587; Hyderabad (A.P.) : Bashir Bagh, Main Road. Phone : 35577.

BOMBAY — BANGKOK — HONGKONG — TOKYO.

GENERAL ELECTIONS (1967)

INDIA, the second most populous country in the world went to the polls on February 15, 1967 for the fourth time after she attained independence on August 15, 1947.

POLITICAL PARTIES AND SYMBOLS

For the 1967 Election, the Election Commission had prescribed 23 symbols. Sixteen of them were "Reserved Symbols" and the remaining seven "Free Symbols."

The Commission classified political parties as recognised and others. A political party which contests in more than one State and secures more than 4 per cent of the votes cast in the country as a whole in a general election is classified as a recognised multi-state party for the next general election. Each recognised party is allotted a reserved symbol and the candidates sponsored by it for contesting from different States are allotted the same symbol.

RECOGNISED MULTI-STATE PARTIES

There are now eight recognised multi-state parties. Their names and symbols allotted to them are: 1. *Indian National Congress*: Two bullocks with the yoke on; 2. *Communist Party of India*: Ears of corn and sickle; 3. *Swatantra Party*: Star; 4. *Communist Party of India (Marxist)*: Hammer, sickle and star; 5. *Bharatiya Jana Sangh*: Lamp; 6. *Praja Socialist Party*: Hut; 7. *Samyukta Socialist Party*: Tree; and 8. *Republican Party of India*: Elephant.

RECOGNISED PARTIES IN DIFFERENT STATES

The names of recognised State Parties, their States and symbols† respectively are:

1. Muslim League; Kerala; Ladder.
2. Kerala Congress; Kerala; Horse.
3. (i) Dravida Munnetra Kazhagam; Tamil Nadu; (ii) United Goans (Furtado Group); Rising Sun.
4. Peasants and Workers' Party; Maharashtra; Cart.
5. (i) Shiromani Akali Dal (Master Tara Singh Group); Punjab; United Goans (Sequeira Group), Goa, Daman and Diu: Hand.
6. (i) Forward Bloc; West Bengal; (ii) Maharashtra-wadi Gomantak; Goa, Daman and Diu: Lion.
7. All Party Hill Leaders' Conference; Assam: Flower.
8. Shiromani Akali Dal (Sant Fateh Singh Group); Punjab: Scales.
9. Jammu and Kashmir National Conference; Jammu and Kashmir: Plough.
10. Republican Party (Maharashtra): Elephant.
11. Janata Paksha (Mysore).
12. Naga National Organisation, Nagaland.
13. Jana Congress (Orissa).
14. Bangla Congress (West Bengal).

Shiromani Akali Dal (Master Tara Singh Group) in Punjab, the Democratic National Conference in Jammu & Kashmir, Frente Populare and the United Goans (Furtado Group) in Goa, Daman & Diu have failed to obtain sufficient electoral support and their recognition has been withdrawn.

The following symbols, though reserved for multi-state parties (Tree for S.S.P. and Elephant for the Republican Party) have also been made available to:

1. Democratic National Conference; Jammu and Kashmir: Tree.

2. (i) Frente Populare; Goa, Daman and Diu; (ii) People's Front, Pondicherry: Elephant.

FREE SYMBOLS

The free symbols, as already stated, are available for allotment to candidates of political parties which are not recognised and to independent candidates, such candidates can indicate the free symbol which they wish to be allotted. The Election Commission has laid down the procedure to be followed if two or more candidates indicate their preference for the same symbol. If one of the candidates is a sitting member of the Lok Sabha or the State Assembly and had been allotted that symbol at the previous election, the returning officer will allot the symbol, to that candidate. In all other cases the allotment will be by draw of lots.

ELECTION OF PRESIDENT AND VICE-PRESIDENT

The polling for the Presidentship took place on 6th May and the result was declared on 9th.

Dr. Zakir Hussain was elected President.*

The polling for the Vice-Presidentship also took place on 6th May and the result was declared on the same day. Mr. V. V. Giri was elected Vice-President. Details of the election of President and Vice-President were given in the 1968 Directory.

LOK SABHA—ALL-INDIA ANALYSIS

Electorate: 249,003,334. Votes polled: 152,724,611. Polling percentage: 61.33. Valid votes: 145,866,510. Invalid votes: 6,830,460. Percentage: 4.68.

Votes polled by parties:

Name of party	Valid votes	Percentage
1. Congress	59,402,754	40.73
2. Jan Sangh	13,715,931	9.41
3. Swatantra	12,659,540	8.68
4. S.S.P.	7,171,627	4.92
5. C.P.I.	7,564,180	5.19
6. C.P.I. (M)	6,140,738	4.21
7. P.S.P.	4,456,487	3.06
8. Republican	3,607,711	2.48
9. Other parties and Independents	31,147,542	21.37

ASSEMBLIES—ALL-INDIA ANALYSIS

Electorate: 247,104,213. Votes polled: 151,793,713. Polling percentage: 61.43. Valid votes: 146,256,509. Invalid votes: 8,535,072. Percentage: 5.96.

Votes polled by parties:

Name of party	Valid votes	Percentage
1. Congress	57,252,357	39.96
2. Jan Sangh	12,567,918	8.78
3. Swatantra	9,519,231	6.65
4. S.S.P.	7,424,633	5.19
5. C.P.I. (M)	6,579,652	4.60
6. C.P.I.	5,906,109	4.13
7. P.S.P.	4,868,720	3.40
8. Republican	2,188,973	1.53
9. Other parties and Independents	36,948,731	25.81

* At the time of going to press Dr. Zakir Hussain was no more and Mr. V. V. Giri, the Acting President had submitted his resignation to stand for the election of President. The Election Commission had announced Aug. 16, 1969 as the date for electing the new President.

† Symbols of the first ten are given.

Below we give particulars about the electorate and the number of seats, valid votes polled, uncontested gains and number of Scheduled Caste and Scheduled Tribe members in Lok Sabha and Assemblies in the 1967 General Elections :

States and Union Territories	Electorate	Seats	Lok Sabha				Seats	Assemblies			
			Sched- uled Castes	Sched- uled Tribes	Un- con- tested gains	Valid votes polled		Sched- uled Castes	Sched- uled Tribes	Un- con- tested gains	Valid votes polled
Andhra Pradesh	20,569,096	40	6	2	—	13,574,005	285	40	11	—	13,853,086
Assam	5,326,341	13	1	1	—	2,987,767	120	8	20	—	3,107,184
Bihar	27,729,950	53	7	5	—	13,646,162	318	45	29	—	13,538,623
Gujarat	10,692,948	24	2	3	—	6,479,211	168	11	22	—	6,381,092
Haryana	4,386,711	9	2	—	—	3,052,219	81	66	15	—	3,029,941
J & K	1,581,140	4	—	—	—	842,624	53	47	6	—	799,572
Kerala	8,616,556	19	2	—	—	6,271,477	133	11	2	—	6,280,942
Madhya Pradesh	18,393,340	37	5	8	—	9,254,773	296	39	61	—	9,115,360
Maharashtra ..	22,225,473	45	3	3	—	14,391,706	269	15	16	—	13,371,735
Mysore	12,778,996	27	4	—	—	7,661,418	214	29	2	—	7,508,894
Nagaland	214,951	1	—	—	1	—	46	—	—	—	—
Orissa	9,883,171	20	3	5	—	4,061,992	140	22	34	—	4,028,258
Punjab	6,311,501	13	3	—	—	4,284,551	104	23	—	—	4,257,113
Rajasthan	12,176,265	23	4	3	—	6,814,419	184	31	21	—	6,756,264
Tamil Nadu	20,796,700	39	7	—	—	15,439,094	234	42	2	—	15,310,702
Uttar Pradesh ..	42,131,487	85	18	—	—	21,783,680	425	89	—	—	21,467,966
West Bengal ..	20,249,169	40	8	2	—	12,862,101	280	55	16	—	12,663,030
Andaman & Nicobar Islands	47,064	1	—	—	—	36,732	—	—	—	—	—
Chandigarh	76,232	1	—	—	—	49,155	—	—	—	—	—
Dadra & Nagar Haveli	29,564	1	—	—	—	21,248	—	—	—	—	—
Delhi	1,684,714	7	1	—	—	1,121,161	—	—	—	—	—
Goa, Daman & Diu	418,394	2	—	—	—	277,786	30	—	—	—	274,921
Himachal Pradesh	1,542,315	6	1	—	—	776,764	60	14	3	—	766,119
Laccadive, Mini- coy & Amindivi Islands	14,505	1	—	—	—	11,807	—	—	—	—	—
Manipur	483,049	2	—	—	—	315,162	29	8	—	—	312,015
Pondicherry	216,689	1	—	—	—	158,872	—	—	—	—	—
Tripura	601,964	2	—	1	—	438,758	0	3	9	—	433,692
Total	249,003,334	515	77	36	1	145,866,510	3,453	498	256	—	143,256,509

PARTY POSITION—LOK SABHA

			Cong.		Swa.		CPI		CPI(M)		PSP		SSP		JS		Rep.		Others		Ind.		
States and Union Territories			Seats	Contested	Won	Contested	Won	Contested	Won	Contested	Won	Contested	Won	Contested	Won	Contested	Won	Contested	Won	Contested	Won	Contested	Won
Andhra Pradesh	..		40	40	34	19	3	22	1	9	—	1	—	3	—	6	—	2	—	—	—	61	2
Assam	..	..	13	13	9	1	—	4	1	—	—	4	2	2	—	3	—	—	—	1	1*	18	—
Bihar	..	..	53	53	34	25	—	17	5	2	—	32	1	34	7	48	1	—	—	5	1†	99	4
Gujarat	..	..	24	24	11	21	12	—	—	—	—	3	—	2	—	—	—	2	—	—	—	28	1
Haryana	..	..	9	9	7	2	—	3	—	2	—	1	—	5	—	7	1	2	—	—	—	36	1
Jammu & Kashmir	..	..	4	4	3	1	—	—	—	—	—	—	—	—	—	2	—	—	—	5	1‡	1	—
Kerala	..	..	19	19	1	3	—	3	—	9	9	1	—	3	3	4	—	—	—	7	2§	12	1
Madhya Pradesh	..	..	37	37	24	2	1	6	—	—	—	15	—	11	—	32	10	7	—	3@	—	61	2
Maharashtra	..	..	45	45	37	4	—	7	2	—	—	8	1	5	2	26	—	17	—	11c	2c	62	1
Mysore	..	..	27	27	18	11	5	—	—	2	—	5	2	2	1	5	3	3	—	—	—	45	1
Nagaland	..	..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Orissa	..	..	20	20	6	17	8	3	—	—	—	5	4	2	1	2	—	—	—	—	—	16	1
Punjab	..	..	13	13	9	6	—	3	—	2	—	—	—	1	—	8	1	2	—	15d	3d	25	—
Rajasthan	..	..	23	22	10	14	8	3	—	1	—	1	—	3	—	7	3	1	—	—	—	64	2
Tamil Nadu	..	..	39	39	3	8	6	7	—	5	4	1	—	—	—	4	—	2	—	25b	25b	36	1
Uttar Pradesh	..	..	85	85	47	38	1	17	5	6	1	27	2	43	8	77	12	24	1	—	—	190	8
West Bengal	..	..	40	40	14	3	—	11	5	16	5	2	1	3	1	7	—	1	—	13e	7e	44	7
Andaman & Nicobar Islands	..	..	1	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—
Chandigarh	..	..	1	1	—	1	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	6	—
Dadra & Nagar Haveli	..	..	1	1	1	1	—	—	—	1	—	1	—	—	—	1	—	—	—	—	—	—	—
Delhi	..	..	7	7	1	—	—	—	—	—	—	—	—	2	—	7	6	6	—	—	—	24	—
Goa, Daman & Diu	..	..	2	1	—	—	—	1	—	—	—	1	—	—	—	—	—	—	3	1f	—	10	1
Himachal Pradesh	..	..	6	6	6	1	—	1	—	1	—	1	—	—	—	3	—	1	—	—	—	11	—
Laccadive, Minicoy & Amindivi Islands	..	..	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	1
Manipur	..	..	2	2	—	—	—	1	1	—	—	—	—	1	—	—	—	—	—	—	—	6	1
Pondicherry	..	..	1	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	1	—
Tripura	..	..	2	2	2	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—
All India Total	..	..	515	512	279	179	44	110	23	58	19	109	13	122	23	251	35	70	1	89	43	865	35

* All Party Hill Leaders Conference; † Jan Kranti Dal; ‡ J. & K. National Conference & Democratic National Conference;
 § Kerala Congress, Muslim League; @Jana Congress; b D.M.K.; c Peasants and Workers' Party; d Akali Dal; e Forward
 Bloc and Bangla Congress; f United Goans.

PARTY POSITION—ASSEMBLIES

States and Union Territories	Seats	Cong.		Sw.		JS		SSP		CPI	
		Contested	Won	Contested	Won	Contested	Won	Contested	Won	Contested	Won
Andhra Pradesh ..	285	285	163	90	29	80	3	8	1	104	11
Assam	120	117	70	13	2	20	—	17	4	22	7
Bihar	318	318	128	126	3	271	26	199	68	97	24
Gujarat	168	167	93	147	66	16	1	14	—	—	—
Haryana	81	81	48	12	3	48	12	23	—	12	—
Jammu & Kashmir..	53	53	39	—	—	29	3	—	—	3	—
Kerala	133	133	9	6	—	24	—	21	19	22	19
Madhya Pradesh ..	296	296	167	21	7	265	78	114	10	33	1
Maharashtra	269	269	202	40	—	165	4	48	4	41	10
Mysore	214	214	124	45	16	37	4	17	6	6	1
Nagaland	46	—	—	—	—	—	—	—	—	—	—
Orissa	140	140	31	101	49	19	—	9	2	31	7
Punjab	104	100	47	10	—	49	9	8	1	20	5
Rajasthan	184	182	89	107	48	63	22	38	8	20	1
Tamil Nadu	234	234	50	27	20	24	—	3	2	32	2
Uttar Pradesh	425	425	199	207	12	401	98	254	44	96	13
West Bengal	280	280	127	21	1	58	1	26	7	62	16
Delhi	—	—	—	—	—	—	—	—	—	—	—
Goa, Daman & Diu..	30	—	—	—	—	—	—	—	—	—	—
Himachal Pradesh ..	60	60	34	5	1	33	7	1	—	11	2
Manipur	29	28	15	—	—	—	—	12	4	6	1
Pondicherry	30	—	—	—	—	—	—	—	—	—	—
Tripura	30	30	27	—	—	5	—	1	—	7	1
All India Total ..	3,453	3,412	1,661	976	257	1,607	268	813	180	625	121

States and Union Territories	C P I (M)		PSP		Rep.		Others		Ind.	
	Contested	Won	Contested	Won	Contested	Won	Contested	Won	Contested	Won
Andhra Pradesh ..	83	9	3	—	11	1	—	—	401	68
Assam	14	—	35	5	—	—	10*	7*	239	25
Bihar	32	4	182	18	2	1	60†	13†	739	33
Gujarat	—	—	37	3	4	—	—	—	228	5
Haryana	8	—	3	—	24	2	—	—	260	16
Jammu & Kashmir..	—	—	3	—	—	—	58‡	8‡	—	—
Kerala	59	52	7	—	—	—	76a	19a	75	15
Madhya Pradesh ..	9	—	110	9	38	—	33b	2b	634	22
Maharashtra	11	1	65	8	79	5	59d	19d	464	16
Mysore	10	1	52	20	12	1	1e	—	331	41
Nagaland	—	—	—	—	—	—	—	—	—	—
Orissa	10	1	33	21	—	—	47f	26f	213	3
Punjab	12	3	9	—	17	3	120g	26g	257	10
Rajasthan	22	—	17	—	5	—	4h	—	434	16
Tamil Nadu	22	11	4	4	13	—	174c	138c	245	7
Uttar Pradesh	57	1	167	11	168	10	—	—	1238	37
West Bengal	135	43	26	7	1	—	122i	47i	327	31
Delhi	—	—	—	—	—	—	—	—	—	—
Goa, Daman & Diu..	—	—	—	—	—	—	62j	28j	156	2
Himachal Pradesh ..	6	—	2	—	4	—	—	—	147	16
Manipur	5	—	5	—	—	—	—	—	99	9
Pondicherry	—	—	—	—	—	—	—	—	—	—
Tripura	16	2	—	—	—	—	—	—	28	—
All India Total ..	511	128	768	106	378	23	826	333	5,554	376

* All party Hill Leaders' Conference; † Jana Kranti Dal; ‡ J. & K. National Conference; a. Kerala Congress and Muslim League (61-5; 15-14); b. Jana Congress; c. Dravida Munnetra Kazhagam; d. Peasants & Workers' Party; e. Peoples Front; f. Jana Congress; g. Akali Dal; h. Janata Party; i. Forward Bloc 42-13 and Bangla Congress 80-34; j. Maharashtrawadi Gomantak (26-16), United Goans (6-0), United Goans — Sequeira Group (30-12).

1967 ELECTIONS

Lok Sabha : No. of seats 523 ; No. of constituencies 523 ; No. of contesting candidates 2,369.

Legislative Assemblies : No. of seats 3,563 ; No. of constituencies 3,487 ; No. of contesting candidates 16,503 ; Period of poll days 9.

Percentage of Poll : Parliamentary constituencies 61·10 ; Assembly constituencies 60·66 ; Number of polling stations 260,000 ; Number of ballot boxes 1,300,000 ; Number of ballot papers 500,000,000 ; Electorate 250,681,530.

MID-TERM ELECTIONS

The mid-term general elections in West Bengal, Bihar and Punjab took place on Feb. 9, 1969, and in Uttar Pradesh on Feb. 5, 7, 9 and 20. In Nagaland the second general election took place on Feb. 6, 8 and 10. In Pondicherry the mid-term elections took place on March 9, 1969.

The following tables give details of the elections in the respective States.

BIHAR

No. of voters in the State : 29,281,772

No. of votes polled : 15,455,159.

No. of votes rejected : 4,50,301.

Party	Seats contested	Seats won
Indian National Congress	317	118
Swatantra Party	41	3
Bhartiya Jana Sangh	302	34
Communist Party of India	161	25
Samyukta Socialist Party	190	52
Communist Party of India (Marxist)	30	3
Praja Socialist Party	93	18
Bhartiya Kranti Dal	87	6
Backward Classes Party of India ..	32	—
Bihar Prantiya Sudharvadi Party	2	—
Akhil Bhartiya Hindu Mahasabha	3	—
Janata Party	137	14
Lok Tantrik Congress	98	9
Proutist Bloc of India	49	—
Bihar Prant Hul Jharkhand	15	5
Republican Party of India	13	—
Akhil Bharatiya Ramrajya Parishad	4	—
Revolutionary Socialist Party	5	—
Shoshit Dal	100	6
Forward Bloc	2	1
Socialist Unity Centre of India	12	—
Independents	449	24
	2,142	318

NAGALAND

No. of voters : 177,480.

No. of votes polled giving also percentage : 1,39,328 (78·75).

No. of votes rejected : 265.

Party	Seats contested	Seats won	Valid votes polled	Percentage
Independents ..	74	8	54,792	39·59
Nagaland Nationalist Organisation	40	10	53,507	38·66
United Front of Nagaland ..	30	22	30,109	21·75

PUNJAB

No. of voters : 66,30,000

No. of votes polled giving also percentage : 48,00,000 (72·03).

No. of votes rejected : 1,27,000.

Party	Seats contested	Seats won	Valid votes polled	Percentage
Congress ..	102	38	1,834,569	39·28
Akali Dal ..	65	43	13,81,916	29·59
Jana Sangh ..	29	8	4,12,623	8·84
C.P.I. ..	28	3	211,886	4·54
C.P.I.(M) ..	10	2	144,610	3·10
SSP ..	7	2	39,109	0·84
Swatantra ..	6	1	42,649	0·91
S.P. ..	3	1	23,617	0·51
R.P.I. ..	22	Nil	51,148	1·10
Janta Party	14	1	66,068	1·41
R.P.I. - Amb.	10	Nil	21,328	0·40
Independents	75	4	59,899	9·42

UTTAR PRADESH

No. of voters : 4,48,66,491

No. of votes polled giving also percentage : 24,264,995 (54·08)

No. of votes rejected : 800,860

Valid votes : 23,464,135

Party	Seats contested	Seats won	Valid votes polled	Percentage
Congress ..	424	211	7,884,050	33·60
Bharatiya Kranti Dal	403	99	4,931,552	21·02
Jana Sangh ..	393	49	4,157,459	17·71
Communist Party of India ..	104	4	693,773	2·96
Communist Party of India (Marxist) ..	19	1	97,311	0·41
Samyukta Socialist Party ..	256	33	1,798,019	7·66
Swatantra ..	68	5	291,190	1·24
Republican Party of India ..	158	1	718,952	3·06
Independents and others	951	19	2,476,305	10·55
Forward Bloc ..	11	—	24,820	0·11
Praja Socialist Party ..	84	3	390,704	1·67
Total ..	2,871	425	23,464,135	

WEST BENGAL

No. of voters: 20,628,394

No. of votes polled giving also percentage : 13,405,304, (66.75).

No. of votes rejected : 353,786, (2.58)

Party	Seats contested	Seats won	Valid votes polled	Per-centage
Congress ..	280	55	5,547,969	41.39
Jana Sangh..	50	—	119,307	0.89
Communist Party of India ..	36	30	938,472	7.00
Communist Party of India (Marxist) ..	97	80	2,667,640	19.90
Samyukta Socialist Party ..	15	9	249,362	1.86
Swatantra ..	4	—	8,927	0.07
Praja Socialist Party ..	24	5	175,890	1.31
Republican Party of India ..	9	—	10,796	0.08
Independents	103	11	485,368	3.63
Bangla Congress ..	49	33	1,093,644	8.17
Forward Bloc	28	21	671,664	5.01
Revolutionary Socialist Party ..	17	12	375,983	2.80
Indian National Democratic Front ..	97	1	118,950	0.89
Proutist Bloc of India ..	59	—	36,344	0.27

Party	Seats contested	Seats won	Valid votes polled	Per-centage
Lok Dal ..	56	—	135,648	1.01
Progressive Muslim League ..	40	3	209,574	1.56
Bangla Jatiya Dal ..	16	—	25,430	0.19
Akhil Bharat Hindu Mahasabha ..	8	—	19,627	0.14
Socialist Unity Centre of India ..	7	7	202,721	1.52
Lok Sevak Sangha ..	6	4	99,844	0.75
Revolutionary Communist Party of India ..	4	2	51,181	0.38
All India Gorkha League ..	4	4	71,665	0.53
Paschim Bangla Kri-sak Samaj..	3	—	6,780	0.05
The Workers Party of India ..	2	2	47,391	0.35
Bhartiya Biplabai Communist Party ..	2	—	7,512	0.05
The Minorities League ..	2	—	372	—
Marxist Forward Bloc..	1	1	27,143	0.20
	1,019	280	13,405,304	100.00

LEGISLATIVE COUNCILS, LEGISLATIVE ASSEMBLIES*, LOK SABHA* AND RAJYA SABHA

ANDHRA PRADESH LEGISLATIVE ASSEMBLY

Speaker : B. V. Subba Reddy ; *Deputy Speaker* : Vasudev Krishnaji Naik ; *Secretary* : G. V. Chowdary.

The party position in the Andhra Pradesh Legislative Assembly is as follows : Congress 198 ; Communist Party 10 ; Communist Marxists 8 ; Peoples Democratic Party 8 ; Democratic Front 86 ; (Swatantra and Jana Congress) ; Jan Sangh 3 ; Samyukta Socialist Party 2 ; Republican Party 2 ; Independents 20 ; Nominated 1 ; Vacant 3 ; Total 288.

P. Mahendra Nath (Cong.), (*Achampet*) ; Dasri Perumallu (Cong.), (*Achanta*) ; Dasri Prakasam (Cong.), (*Addanki*) ; Kastal Ramakistoo (C.P.I.), (*Adilabad*) ; T. G. L. Timmaiah (Cong.), (*Adoni*) ; Anireddy Punna Reddy (Cong.), (*Alair*) ; T. Chendra Sekhara Reddy (Cong.), (*Alampur*) ; G. Timma Reddy (Cong.), (*Allagadda*) ; B. V. Ramanayya (Rep.), (*Allavaram*) ; Bezwada Papireddy (P.D.P.), (*Allur*) ; D. Govinda Doss (Cong.), (*Alur*) ; K. Prabhakara Rao (P.D.P.), (*Amalapuram*) ; Som Bhupal (Cong.), (*Amrachinta*) ; K. Govinda Rao (C.P.I.),

(*Anakapalli*) ; A. Venkatarreddy (Cong.), (*Anantapur*) ; V. Ramakrishna Chowdary (Cong.), (*Anaparti*) ; C. Rajanarasimha (Cong.), (*Andole*) ; T. Ranga Reddy (Cong.), (*Armoor*) ; K. Bhim Rao (Cong.), (*Asifabad*) ; M. M. Hashim (Cong.), (*Asifnagar*) ; P. Ramachandra Reddy (Swa.), (*Atmakur*) ; K. V. Narasimha Raju (Cong.), (*Attili*) ; S. R. P. Yarlagadda (Cong.), (*Avanigadda*) ; B. Veera Reddy (Cong.), (*Badvel*) ; G. Rajaram (Cong.), (*Balkonda*) ; P. Lakshmana Rao (Cong.), (*Bandar*) ; M. Munuswamy (Cong.), (*Bangaripalem*) ; M. Sreenivasa Rao (Cong.), (*Banswada*) ; K. Prabhakar Rao (Cong.), (*Bapatla*) ; K. Kannaiah Dora (Cong.), (*Bhadrachalam*) ; P. V. Gajapathi Raju (Cong.), (*Bheemunipatnam*) ; B. Vijayakumar Raju (Cong.), (*Bhimavaram*) ; K. Appadu Dora (Cong.), (*Bhogapuram*) ; K. Lakshman Bapuji (Cong.), (*Bhongir*) ; S. A. Devshah (Cong.), (*Boath*) ; R. S. R. Ranga Row (Ind.), (*Bobbili*) ; R. Bhoom Rao (J.C.), (*Bodhan*) ; Y. Mohan Reddy (Cong.), (*Buggaram*) ; Komaram Ramayya (Cong.), (*Burgampahad*) ; K. Veeranna (Cong.), (*Burugupudi*) ; N. Ramulu (Cong.), (*Chalukurthi*) ; Sultan S. Owasi (Ind.),

*As there has been frequent defections of members from one party to the other, it is not possible to give a correct picture of their party affiliations as also the party position in the various Assemblies and Lok Sabha.

(*Charminar*); Tadde Rama Rao (Cong.), (*Cheepurupalli*); Smt. N. G. Vimala Devi (Cong.), (*Chennur*); Boddu Abraham (C.P.I.), (*Cheriyal*); D. Satya Narayana (J.C.), (*Chevella*); C. B. Krishnam Raju (Ind.), (*Cheyzeru*); K. Butchiah (Swa.), (*Chilakaluripeta*); K. Rajamallu (Cong.), (*Chinnur*); G. Vishnumurthy (Cong.), (*Chintalapudi*); D. Kondala Rao (Cong.), (*Chintapalli*); Pragada Kotaiah (Cong.), (*Chirala*); D. Anjaneyulu Naidu (Cong.), (*Chittoor*); Vechalapu Palavelli (Swa.), (*Chodavaram*); Mohd. Rahmatulla (Cong.), (*Cuddapah*); R. Mahananda (J.C.), (*Darsi*); M. Ramamohan Rao (Cong.), (*Dendulur*); G. Narayana Reddy (Cong.), (*Deverkonda*); Pallem Venkatesan (Swa.), (*Dharmavaram*); K. V. Krishnamurthy (Cong.), (*Dhone*); M. Bheem Reddy (Ind.), (*Dommat*); N. Ramachandra Reddy (Cong.), (*Dornakal*); A. Ramireddy (Cong.), (*Duggirala*); N. Satyanarayana (Cong.), (*Elamanchilli*); M. Venkatanarayana (Cong.), (*Eluru*); N. A. Narsu Naidu (Cong.), (*Etcherla*); Gopal Reddy (Cong.), (*Gadwal*); V. Krishnaji Naik (Cong.), (*Gagan Mahal*); P. Sambasiva Raju (Ind.), (*Gajapatnagar*); G. Saidiah (Cong.), (*Gajwel*); K. Venkataratnam (Cong.), (*Gannavaram*); T. Lakshma Reddy (Ind.), (*Ghanpur*); D. Panduranga Reddy (J.C.), (*Giddalur*); G. Krishnam Naidu (Cong.), (*Gompa*); R. Ramachandra Goud (Cong.), (*Gooty*); T. Veera Raghavulu (Cong.), (*Gopalapuram*); Smt. Padma Bhaskara Reddy (Cong.), (*Gorantla*); Smt. M. Kasturi Devi (Cong.), (*Gudivada*); V. Ramachandra Reddy (Cong.), (*Gudur*); Sanakkayala Ankamma (Cong.), (*Guntur I*); Chebrolu Hanumaiah (Cong.), (*Guntur II*); K. Venkateswarlu (Cong.), (*Gurajala*); K. Krishnamurthy (Swa.), (*Harischandrapuram*); R. Narasimharamaiah (Cong.), (*Hasanparthy*); K. Anjana Reddi (Ind.), (*Hindupur*); Polsani Narsing Rao (Cong.), (*Huzurabad*); A. Vasudevarao (Cong.), (*Huzurnagar*); M. N. Lakshmi Narasiah (Cong.), (*Ibrahimpatnam*); Landa Karaiah Reddy (Swa.), (*Ichapuram*); B. Lakshmikanta Rao (Cong.), (*Indurthy*); Laxminarasimha Reddy (P.D.P.), (*Jadcherla*); Pantam Kamaraju (Cong.), (*Jaggampeta*); R. B. Rama Seshayya Sresti (Cong.), (*Jaggayyapet*); K. L. Narasimha Rao (Cong.), (*Jagtial*); G. Butchi Apparao (Swa.), (*Jami*); Kunda Ramaiah (Swa.), (*Jammalamadugu*); Mohd. K. Ahmed (Cong.), (*Jangaon*); Vithal Reddy (Cong.), (*Jukkal*); Bathina Subba Rao (Cong.), (*Kadim*); K. V. Vema Reddy (Cong.), (*Kadiri*); C. Panduranga Rao (Cong.), (*Kaikalur*); C. V. K. Rao (Ind.), (*Kakinada*); B. G. Subbaramireddy (Cong.), (*Kalahasti*); Jaipal Reddy (Cong.), (*Kalvakurthi*); T. C. Mareppa (Cong.), (*Kalyandurg*); K. V. Narayana Reddy (Cong.), (*Kamalapur*); N. Pulla Reddy (Cong.), (*Kamalapuram*); P. Madhusudhan Reddy (J.C.), (*Kamareddy*); N. Chenchurama Naidu (Cong.), (*Kandukur*); P. Venkata Reddy (Cong.), (*Kanigiri*); A. Bhaskara Rao (Cong.), (*Kankipadu*); J. Chokka Rao (Cong.), (*Karimnagar*); G. Subbanaidu (J.C.), (*Kavali*); B. V. Gurumurthy (Cong.), (*Khairatabad*); Rajab Ali Mohd. (C.P.I.-M.), (*Khammam*); K. Achuta Reddy (Cong.), (*Kodangal*); P. Rajaratna Rao (Cong.), (*Kodumur*); G. Sriramulu (Cong.), (*Kodur*); B. V. Subba Reddy* (*Koilkuntla*); B. Narasimha Reddy (P.D.P.), (*Kollapur*); C. Rosayya Naidu (Cong.), (*Kondapi*); M. V. Subba Raju (Cong.), (*Kothapeta*); Meenaka Subbanna (Cong.), (*Kothuru*); Vemareddy Venkureddy (Cong.), (*Kovur*); K. Butchi Rayudu (S.S.P.), (*Kovvur*); A. Bhagavantharao (Cong.), (*Kuchinapudi*); D. Venkatesam (P.D.P.), (*Kuppam*); K. E. Madanna (Cong.), (*Kurnool*); R. Rajagopala Reddy (Cong.), (*Lakkireddipalli*); J. V. Narasinga Rao (Cong.), (*Luxettipet*); V. Linga Reddy (Cong.), (*Macherla*); M. B. Raja Rao (Cong.), (*Madakasira*); A. Narasinga Rao (Cong.), (*Madanapalle*); Duggineni Venkaiah (Cong.), (*Madhira*); Smt. Rama Kumari Devi (Cong.), (*Madugula*); Badrivishalpetti (S.S.P.), (*Maharajgunj*); T. Satyanarayana (C.P.I.), (*Mahbubabad*); Mohd.

Ibrahim Ali (Cong.), (*Mahbubnagar*); K. Ramachandra Rao (Cong.), (*Makthal*); Smt. Sarojini Pulla Reddy (Cong.), (*Malakpet*); B. Niranjana Rao (J.C.), (*Malleswaram*); T. Nageswara Rao (Cong.), (*Mangalagiri*); P. V. Narasimha Rao (Cong.), (*Manthani*); C. Vengaiiah (Ind.), (*Markapur*); M. A. Ramachandra Reddy (Cong.), (*Medak*); Smt. Sumitra Devi (Cong.), (*Medchal*); C. Satyanarayana Rao (Ind.), (*Metpalli*); T. C. Krishna Reddy (Cong.), (*Miryalguda*); Gaddanna (Cong.), (*Mudhole*); Kaza Ramanatham (J.C.), (*Mudinepalli*); Santosh (Cong.), (*Mulug*); P. Goverdhan Reddy (Cong.), (*Mungode*); T. Anjiah (Cong.), (*Musheerabad*); Gadapalli Ramulu (Cong.), (*Mydaram*); S. P. Nagireddy (Cong.), (*Mydukur*); C. Venkata Rao (Cong.), (*Mylavaram*); Gaddam Mahalakshmi (Cong.), (*Nagaram*); K. Gopal Naidu (Cong.), (*Nagari*); T. Papa Rao (Cong.), (*Nagarikatakam*); V. N. Goud (P.D.P.), (*Nagarkurnool*); S. P. Rudra Raju (Swa.), (*Nagur*); N. Raghava Reddy (C.P.I.-M.), (*Nakrekal*); C. Srinivas Rao (Cong.), (*Nalgonda*); K. Ramachandra Reddy (Cong.), (*Nallamada*); A. Suryanarayana Rao (Cong.), (*Nandigama*); C. Rambhupal Reddy (Cong.), (*Nandikotkur*); S. B. Nabi Saheb (Cong.), (*Nandyal*); K. Sudarshen Reddy (Cong.), (*Narasampet*); S. Jagannadham (Swa.), (*Narasannapeta*); R. Satyanarayana Raju (C.P.I.-M.), (*Narasapur*); K. Brahmananda Reddy (Cong.), (*Narasaraopet*); Shetker Shiva Rao (Cong.), (*Narayanahed*); C. Jagannath Rao (Cong.), (*Narsapur*); S. Suryanarayana Raju (Cong.), (*Narsipatnam*); A. Madhava Rao (J.S.), (*Nellore*); Gotte Bhoopathi (Cong.), (*Nerella*); K. Someswara Rao (Cong.), (*Nidumolu*); P. Narasa Reddy (Cong.), (*Nirmal*); K. V. Gangadhar (J.C.), (*Nizamabad*); Butti Rajaram (Cong.), (*Nustulapur*); M. R. Appa Rao (Cong.), (*Nuzvid*); C. Ramachandra Reddy (Cong.), (*Onigole*); T. Chitti Naidu (Cong.), (*Paderu*); P. Seshavaram (C.P.I.-M.), (*Palacole*); K. Santhaiah (Cong.), (*Palair*); Jammana Joji (Swa.), (*Palakonda*); T. C. Rajan (Swa.), (*Palamaner*); P. Pichaiiah (Cong.), (*Palwancho*); S. Venkatarreddi (Cong.), (*Pamaru*); Venkata Reddy (Cong.), (*Panyam*); G. Venkata Reddy (Cong.), (*Parchur*); Rama Reddy (Cong.), (*Pargi*); C. Janga Reddy (J.S.), (*Parkal*); S. R. A. S. Appalanaidu (Cong.), (*Paravada*); Venkata Rami Naidu (Swa.), (*Parvatipuram*); Pothula Gunnayya (Cong.), (*Patapatnam*); K. Easwara Reddy (C.P.I.-M.), (*Pattikonda*); G. Suryanarayana (Cong.), (*Payakaraopeta*); Narayana Applanaidu Vanagapandu (Ind.), (*Pedamanapuram*); G. Ramaswamy Reddy (Cong.), (*Peddakurapadu*); J. Malla Reddy (P.D.P.), (*Peddapalli*); V. Narayana Murthy (C.P.I.), (*Peddapuram*); J. Lakshmayya (Cong.), (*Penugonda*); Narayana Reddy (Cong.), (*Penukonda*); G. V. C. Reddy (Cong.), (*Pileru*); Y. Suryanarayana Murthy (Cong.), (*Pithapuram*); K. Narayanaswami (Cong.), (*Podili*); K. Rami Reddy (Cong.), (*Polaravaram*); C. Satyanarayana (Swa.), (*Ponduru*); P. A. Prasadarao (Cong.), (*Ponnur*); M. Chinna Nagiah (Swa.), (*Prathipadu*); M. Veeraraghavarao (J.C.), (*Pratipadu*); R. Ramasubba Reddy (Cong.), (*Proddatur*); P. Basi Reddy (Cong.), (*Pulivendla*); V. Ramaswamy Reddy (Cong.), (*Punganur*); Gandhamaneni Sivayya (C.P.I.), (*Puttur*); C. P. Chowdary (C.P.I.), (*Rajahmundry*); B. Ratnasabhapathy (J.C.), (*Rajampeta*); N. Veerraju (Cong.), (*Ramachandrapuram*); V. Kasi Ram (Cong.), (*Ramannapet*); Smt. R. Ratnamma (Cong.), (*Ramayanpat*); A. Sanjiva Reddy (Cong.), (*Rapur*); M. Krishna Reddy (Cong.), (*Rayachoti*); Trippaswamy (Swa.), (*Rayadurg*); N. Ganeswara Rao (Cong.), (*Razole*); Y. Chennaiah (Cong.), (*Repale*); J. Rajayya Boina (Cong.), (*Salur*); C. Venkataratnam (Cong.), (*Sampara*); Narsimha Reddy (Cong.), (*Sangareddy*); V. C. Kesavarao (Cong.), (*Santhanthalapad*); S. Vemayya (C.P.I.), (*Sarvepalli*); V. Gopalakrishnayya (Ind.), (*Sattenapalli*); K. Munuswamy

* Speaker has no party affiliation.

(Swa.), (*Satyavedu*); K. S. Narayana (Cong.), (*Secunderabad*); Smt. V. Mankamma (S.C.) (Cong.), (*Secunderabad Cantt. (R)*); Dr. K. Naganna (Cong.), (*Shadnagar*); V. B. Raju (Cong.), (*Siddipet*); K. C. Sree Rangaiah (Cong.), (*Singanamala*); C. Rajeswar Rao (C.P.I.), (*Sircilla*); G. Sanjiva Reddy (Cong.), (*Sirpur*); Ahmed Hussain (Ind.), (*Sitarabagh*); G. Latchanna (Swa.), (*Sompeta*); T. Satyanarayana (Swa.), (*Srikakulam*); K. Appala Naidu (Cong.), (*Srungavarampukota*); P. Venkatasubbaiah (Cong.), (*Sullurpet*); Uppala Malsoor (C.P.I.-M.), (*Suryapet*); C. Subbarayudu (Cong.), (*Tadpatri*); A. Krishna Rao (Cong.), (*Tadepalligudem*); G. Venkata Rattaiah (Cong.), (*Tadikonda*); Ealy Vadapalli (Cong.), (*Tallarevu*); Vacant (*Tandur*); G. Satyanarayana Murthy (Cong.), (*Tanuku*); N. Ramulu (Swa.), (*Tekkali*); Smt. Doddapaneni Indira (Cong.), (*Tenali*); Smt. T. N. Anasvyamma (Cong.), (*Thamballapalle*); B. N. Reddy (C.P.I.-M.), (*Thungaturthy*); A. Easwarareddy (Swa.), (*Tirupathi*); V. Kurmayya (Cong.), (*Tiruvur*); V. Venkatakrishnan Raju (Cong.), (*Tuni*); D. Narasimham (Swa.), (*Udayagiri*); K. Kusumeswa Rao (Cong.), (*Undi*); Ch. S. P. M. Raju

(Cong.), (*Ungutur*); G. China Venkanna (Cong.), (*Uravakonda*); P. Thimma Reddy (Cong.), (*Vayalpad*); J. Venkata Rao (Cong.), (*Vemsoor*); Y. Venkata Rao (Swa.), (*Vemur*); O. Venkatasubbaiah (Cong.), (*Venkatagiri*); V. Muniswamappa (Cong.), (*Vepanjeri*); A. Ramaswamy (Cong.), (*Vicarabad*); Dr. T. V. S. Chalapathi Rao (Cong.), (*Vijayawada-East*); Appalaswamy Marupilla (Cong.), (*Vijayawada-West*); Smt. B. Jayaprada (Cong.), (*Vinukonda*); A. V. Bhanoji Rao (Cong.), (*Visakhapatnam I*); P. Sanyasirao (C.P.I.-M.), (*Visakhapatnam II*); V. Rama Rao (J.S.), (*Vizianagaram*); P. Mudile Babu (Swa.), (*Vunukuru*); K. Venkateswara Rao (J.C.), (*Vuyyuru*); Smt. J. Kumudini Devi (Cong.), (*Wanaparthy*); T. S. Murthy (P.D.P.), (*Warangal*); T. Purushothama Rao (J.C.), (*Wardhanapet*); Khaja Nizamuddin (Ind.), (*Yakutpura*); G. Satyanarayana Rao (Cong.), (*Yellandu*); Smt. J. Easwari Bai (Rep.), (*Yellareddy*); C. Mallikharjuna (Cong.), (*Yellavaram*); P. D. Satyanarayana Raju (Cong.), (*Yemmiganur*); P. Subbayya (C.P.I.), (*Yerragondipalem*); M. Baga Reddy (Cong.), (*Zahirabad*); Mrs. M. Godfrey (*Nominated Anglo-Indian*).

ANDHRA PRADESH LEGISLATIVE COUNCIL

Strength :—90.

An estimate of party position is as follows :—Congress 67, Communist Unity Committee 2; Communist Party of India (Marxist) 3; Communist Party 3; Jan Sangh 4; Swatantra 3; National Teachers' Front 3; Independent 7.

Chairman : Pidathala Ranga Reddi; *Dy. Chairman* : M. Anandam; *Secretary* : G. V. Chowdary; *Asst. Secretary* : Sadasiva Reddy.

Local Authorities' Constituency (31): Mukkassir Shah (Cong.), (*Adilabad*); G. Nagabhushanam (Cong.), (*Anantapur*); Smt. Katta Subbamma (Cong.), (*Chittoor*); P. Narsimha Reddy (Cong.), (*Chittoor*); A. Chengal Reddy (Cong.), (*Cuddapah*); R. Ramalinga Raju (Cong.), (*Godavari-East*); V. Satyanarayana Murthy (Cong.), (*Godavari-East*); Ch. Subba Rao Chowdary Chitturi (Cong.), (*Godavari-West*); T. Veerabhadra Rao (Cong.), (*Godavari-West*); B. Adi Narayana Rao (Cong.), (*Guntur*); V. Satyanarayana Rao (Cong.), (*Guntur*); M. Manik Rao (Cong.), (*Hyderabad*); E. Satyanarayana (Cong.), (*Hyderabad*); M. Chenna Kesava Reddy (Cong.), (*Karimnagar*); Heeralal Moria (Cong.), (*Khammam*); Smt. V. Kamala Kumari (Cong.), (*Krishna*); G. Krishnamurthy (Cong.), (*Krishna*); P. Ranga Reddy (Cong.), (*Kurnool*); M. Subba Reddy (Cong.), (*Kurnool*); K. Ramachandra Reddy (Cong.), (*Mahboobnagar*); K. Subrahmanyam (Cong.), (*Mahboobnagar*); S. Lakshma Reddy (Cong.), (*Medak*); Gunda Ram Reddy (Ind.), (*Nalgonda*); P. Veera Raghava Reddy (Cong.), (*Nellore*); S. Venkata Krishna Reddy (Cong.), (*Nellore*); P. Limba Reddy (Cong.), (*Nizamabad*); V. Krishnamurti Naidu (Cong.), (*Srikakulam*); T. Venkatappa Naidu (Cong.), (*Srikakulam*); N. V. Ganga Raju (Cong.), (*Visakhapatnam*); I. Satyanarayana (Cong.), (*Visakhapatnam*); Smt. K. Kanakaratnamma (Cong.), (*Warangal*).

Elected by the Legislative Assembly (31): Guntur Bapanayya (C.P.I.-M.); G. Brahmayya (Cong.); S. Siddha Reddy (Cong.); M. Shamsheer Baig (Cong.); V. Purushothama Reddy (Cong.); Josephi Appikatl

(Cong.); Kondiah Chowdary Divi (Swa.); Y. V. Krishna Rao (C.P.I.); K. Vijaya Bhaskara Reddy (Cong.); R. Narapa Reddy (Cong.); J. Raghotham Reddy (Cong.); Abdul Rahman Khan (Cong.); I. Lingayya (Cong.); Nathaniel Milari Williams (Cong.); K. V. Pratap Reddy (Cong.); Meda Subbaiah (Cong.); Smt. Alluri Annapurnaamma (Cong.); Makhdoom Mohiuddin (C.P.I.); P. Venkataswami Reddy (Cong.); Pyndah Venkatanarayana (Swa.); K. Rosaih (Swa.); N. R. Sham Rao (Cong.); T. Ramaswami (Cong.); N. Ramachandraiah (C.P.I.-M.); G. V. Sudhakar Rao (Ind.); V. V. R. K. Yachendra (Cong.); Akkala Kotaiah (Cong.); G. Appalaswamy (Cong.); A. Chitambara Reddy (Cong.); N. Durgamallikarjuna Prasada Rao (C.P.I.-M.); Smt. P. Vani Rama Rao (Cong.).

Graduates' Constituency (8): S. B. P. Pattabhirama Rao (Cong.), (*Circars-Central*); Atchuta Ramaraju (J.S.), (*Circars-North*); J. Yagna Narayana (J.S.), (*Circars-South*); V. Rama Rao (J.S.), (*Hyderabad*); T. Panchajanyam (Cong.), (*Hyderabad*); Y. C. Ranga Reddy (J.S.), (*Rayalaseema-East*); B. V. Subbaraju (Cong.), (*Rayalaseema-West*); M. Anandam (Cong.), (*Telangana*).

Teachers' Constituency (8): D. Satyasubramanyam (N.T.F.), (*Circars-Central*); T. P. V. Kurmacharyulu (Ind.), (*Circars-North*); M. Giridhara Rao (Ind.), (*Guntur*); K. Koteswara Rao (N.T.F.), (*Krishna*); S. Ramakrishnaiah (C.P.I.-M.), (*Rayalaseema-East*); V. Vijayarama Raju (C.P.I.), (*Rayalaseema-West*); J. Mutha Reddy (N.T.F.), (*Rayalaseema-East*); V. P. Raghavachari (Ind.), (*Telangana-West*).

Nominated by the Governor (12): A. Venkatasubbarao Alur *alias* Chakrapani (Ind.); M. Azamuddin (Cong.); Smt. Zubeda Begum (Cong.); Smt. A. Shyamala Devi (Cong.); K. Koti Reddy (Cong.); Gurram Joshua (Cong.); S. Sambhu Prasad (Ind.); Nivarthi Venaksubbiah (Cong.); S. M. K. Biyabani (Cong.); Ch. Bavayya Chowdary (Cong.); Smt. Roda Mistry (Cong.); P. Suryachandra Rao (Cong.).

ASSAM LEGISLATIVE ASSEMBLY

Seats : 126 (S.C. 8 ; S.T. 24) ; Electorate : 54,39,305.

Speaker : Mabi Kanta Das ; *Dy. Speaker* : Ataur Rahman.

An estimate of party position is given below : Congress 71 ; Praja Socialist Party 5 ; Communist Party 7 ; Swatantra 2 ; R.C.P.I. 1 ; Samyukta Socialist Party 3 ; Independents and others 27 ; Vacant 10.

K. N. Bonikva (S.C.) (Ind.), (*Abhayapuri (R)*) ; John F. Mauliana (S.T.) (Ind.), (*Aijal-East (R)*) ; A. Thanglura (S.T.), (Cong.), (*Aijal-West (R)*) ; Pushpadhar Chaliha (Cong.), (*Amguri*) ; Maulana A. J. Chowdhury (Cong.), (*Badarpur*) ; J. U. Ahmed (Ind.), (*Baghbar*) ; Vacant (*Baghmara (R)*) ; D. R. Rongpi (S.T.), (Cong.), (*Baithalangso (R)*) ; Biswadev Sarma (Cong.), (*Balipara*) ; Surendranath Das (S.T.) (Cong.), (*Barama (R)*) ; Gaurisankar Bhattacharyya (Ind.), (*Barbhag*) ; Kehoram Hazarika (C.P.I.), (*Barhampur*) ; Dr. Surendranath Das (P.S.P.), (*Barpeta*) ; Dharanidhar Choudhury (Cong.), (*Bhabanipur*) ; Premadhor Bora (Ind.), (*Bihpuria*) ; Golak Chandra Patgiri (Cong.), (*Bijni*) ; Giasuddin Ahmed (Ind.), (*Bilasipara*) ; K. P. Tripathi (Cong.), (*Biswanath*) ; Upendranath Sanatan (Cong.), (*Bogdang*) ; Sassi Terang (S.T.) (Cong.), (*Bokajan (R)*) ; Lakheswar Das (S.C.) (Cong.), (*Bokakhat (R)*) ; M. N. Hazarika (S.C.) (Cong.), (*Bokani (R)*) ; P. K. Choudhury (Cong.), (*Boko*) ; Mathura Mohan Sinha (Cong.), (*Bongaigaon*) ; A. H. Mazumdar (Cong.), (*Borkhola*) ; D. C. Barua (Ind.), (*Charaibahi*) ; A. R. Chaudhury (Cong.), (*Chenga*) ; A. N. Akram Hussain (Ind.), (*Chhaygaon*) ; Vacant (*Cherrapunjee (R)*) ; Vacant (*Dainadubi (R)*) ; S. C. Baruah (Cong.), (*Dalgaon*) ; Narendranath Sarma (Cong.), (*Dergaon*) ; Nameswar Pegu (S.T.) (C.P.I.), (*Dhakuakhana (R)*) ; Smt. Pushpa Lata Das (Cong.), (*Dhekiajuli*) ; Romesh Mohan Kouli (Swa.), (*Dhemaji*) ; M. Shamsul Huda (R.C.P.I.), (*Dhing*) ; J. M. Barbhuiya (S.C.) (Ind.), (*Dholai (R)*) ; Syed Ahmed Ali (Cong.), (*Dhubri*) ; R. C. Barooah (Cong.), (*Dibrugarh*) ; Jadu Nath Bhuyan (Cong.), (*Digboi*) ; Malia Tanti (Cong.), (*Doom-Dooma*) ; Sarat Chandra Rabha (S.T.), (C.P.I.), (*Dudnai (R)*) ; M. M. Choudhury (Cong.), (*Gauhati-East*) ; Govinda Kalita (C.P.I.), (*Gauhati-West*) ; Md. Azad Ali (P.S.P.), (*Gauripur*) ; Benoy Krishna Ghose (Ind.), (*Goalpara-East*) ; S. A. Jotder (P.S.P.), (*Goalpara-West*) ; Bishnulal Upadhyaya (Cong.), (*Gohpur*) ; Soneswar Bora (S.S.P.), (*Golaghat*) ; K. C. Roy Pradhani (Ind.), (*Golakganj*) ; Mathius Tudu (Cong.), (*Gossaigaon*) ; J. B. Hagier (S.T.), (Cong.), (*Haflong (R)*) ; A. M. Mazumdar (Cong.), (*Hailakandi*) ; Bisnuram Medhi (Cong.), (*Hajo*) ; Jonab Rahimuddin Ahmed (Swa.), (*Hojai*) ; Chatrasing Teron (S.T.) (Cong.), (*Howraghat (R)*) ; Sailen Medhi (Ind.), (*Jalukbari*) ;

Lakshmi Prasad Goswami (Cong.), (*Jamunamukh*) ; Ataur Rahman (Cong.), (*Jania*) ; Jogen Saikia (Cong.), (*Jorhat*) ; Vacant (*Jowai (R)*) ; Bhadra Kanta Gogoi (Ind.), (*Joypur*) ; Dandiram Dutta (Cong.), (*Kalaigaon*) ; A. C. Goswami (S.S.P.), (*Kaliabor*) ; L. D. Chaudhury (P.S.P.), (*Kamarpur*) ; Rothindra Nath Sen (Ind.), (*Karimganj-North*) ; Prafulla Choudhury (S.C.), (Cong.), (*Karimganj-South (R)*) ; A. K. Nurul Haque (Cong.), (*Katigora*) ; Tazammul Ali Laskar (Ind.), (*Kallicherra*) ; R. Basumatari (S.T.) (Cong.), (*Kokrajhar-West (R)*) ; Rani Manjula Devi (Cong.), (*Kokrajhar-East*) ; Md. Abul Kasem (Cong.), (*Laharighat*) ; Smt. Lily Sen Gupta (Cong.), (*Lahowal*) ; Mera Chouba Singha (Cong.), (*Lakhipur*) ; S. Ranjan Sarkar (Cong.), (*Lumding*) ; Lal Chungachinzeb (S.T.) (Ind.), (*Lungleh (R)*) ; Rameswar Konger (Cong.), (*Mahmara*) ; Mohidhar Pegu (S.T.) (Ind.), (*Majuli (R)*) ; Md. Matleuddin (Ind.), (*Mangaldoi*) ; Zahirul Islam (Ind.), (*Mankachar*) ; Gajen Tanti (Cong.), (*Mariani*) ; Mohi Kanta Das (Cong.), (*Missamari*) ; Smt. Padma Kumari Gohain (Cong.), (*Moran*) ; Pising Konwar (S.T.) (Ind.), (*Morigaon (R)*) ; P. N. Choudhury (Cong.), (*Nalbari-East*) ; Dr. Bhupen Hazarika Barman (Cong.), (*Nalbari-West*) ; Dr. Bhupen Hazarika (S.C.) (Ind.), (*Naoboicha (R)*) ; Karuna Kanta Gogoi (Cong.), (*Nazira*) ; Vacant (*Nongpoh (R)*) ; Vacant (*Nongstoin (R)*) ; Govinda Chandra Bora (Cong.), (*North Lokhipur*) ; Phani Bora (C.P.I.), (*Nowgong*) ; Abala Kanta Goswami (Ind.), (*Palasbari*) ; Hiralal Patwary (Ind.), (*Panery*) ; Bhubaneswar Barman (P.S.P.), (*Patacharkuchi*) ; Motilal Kanoo (Ind.), (*Patharkandi*) ; Vacant (*Phulbari (R)*) ; Sarat Chandra Goswami (Cong.), (*Raha*) ; Nakul Chandra Das (S.C.), (Cong.), (*Rangamati (R)*) ; K. M. Sarma (C.P.I.), (*Rangiya*) ; Bishwanath Upadhyaya (Cong.), (*Ratabari*) ; M. A. Musawwir Choudhury (Ind.), (*Rupohihat*) ; D. N. Hazarika (Cong.), (*Saikhowa*) ; D. K. Barooah (Cong.), (*Samaguri*) ; Matilal Nayak (S.C.) (Ind.), (*Sarukhetri (R)*) ; C. G. Karmakar (Cong.), (*Sarupathar*) ; Vacant (*Shillong*) ; P. C. Gogoi (C.P.I.), (*Sibsagar*) ; Uttam Chandra Brahma (S.T.) (Cong.), (*Sidli (R)*) ; Satindra Mohan Dev (Cong.), (*Silchar*) ; M. H. Choudhury (Cong.), (*Sonai*) ; Bimala Prasad Chaliha (Cong.), (*Sonari*) ; Mrs. Pranita Talukdar (Cong.), (*Sorbhog*) ; Bazlul Basit (Cong.), (*South Salmara*) ; N. C. Bhuyan (Cong.), (*Sootea*) ; Maneswar Boro (S.T.) (Ind.), (*Tamulpur (R)*) ; Manik Chandra Das (Cong.), (*Tengakhat*) ; Tilok Gogoi (Cong.), (*Teok*) ; Vacant (*Tezpur*) ; Durgeswar Saikia (Cong.), (*Thowra*) ; Bhadreswar Gogoi (S.S.P.), (*Tingkhong*) ; Paramananda Gogoi (Cong.), (*Tinsukia*) ; Debeswar Sarmah (Cong.), (*Titabar*) ; Vacant (*Tura (R)*) ; Bahadur Basumatary (S.T.) (Cong.), (*Udalgrui (R)*) ; Jagannath Sinha (Cong.), (*Udharband*).

BIHAR LEGISLATIVE ASSEMBLY & BIHAR LEGISLATIVE COUNCIL

(See pages 298 & 300)

GOA LEGISLATIVE ASSEMBLY

Seats : 30, Electorate : 4,18,394.

Speaker : Gopal Apa Kamat.

Dy. Speaker : Monju B. Naik Gaonkar.

Secretary : R. L. Segel.

An estimate of party position is given below : Maharashtrawadi Gomantak 17 ; United Goans 12 ; Independent 2.

O. A. J. S. Lobo (U.G.), (*Aldona*) ; Mrs. Elu Jose Miranda (U.G.), (*Benarolim*) ; D. K. Chopdenkar (M.G.), (*Bicholim*) ; Valente Sequeira (U.G.), (*Calangute*) ; M. B. Naik Gaonkar (M.G.), (*Canacona*) ; Dr. L. P. Barbosa (U.G.), (*Cortalim*) ; R. S. Fernandes (U.G.), (*Cuncolim*) ; Abdul Razak (U.G.), (*Curcholem*) ; R. J. Barneto (U.G.), (*Curtorim*) ; M. M. Bathela (Ind.), (*Daman*) ; Naraina S. Fugro (Ind.), (*Diu*) ;

Anthony J. D'Souza (M.G.), (*Madrem*) ; G. G. Mayekar (M.G.), (*Mapusa*) ; Dayanand B. Bhandodkar (M.G.), (*Marcaim*) ; Anant N. Naik (U.G.), (*Margao*) ; Gajanan Patil (M.G.), (*Mormugao*) ; Leo Mauricio Velho (U.G.), (*Navelim*) ; A. K. S. Usgaonker (M.G.), (*Pale*) ; Yeshwant S. Desai (U.G.), (*Panjim*) ; Babal L. Kinklekar (M.G.), (*Pernem*) ; Mrs. S. G. Kakodkar (M.G.), (*Ponda*) ; Shaba K. Desai (M.G.), (*Quepem*) ; Morajkar Vasudev Datta (M.G.), (*Sanguem*) ; T. F. Pereira (U.G.), (*Santo Andre*) ; Pratap Srinivas Bakal (M.G.), (*St. Estevan*) ; Dr. Jack de Sequeira (U.G.), (*Santa Cruz*) ; P. P. Achrekar (M.G.), (*Siolim*) ; K. B. Naik (M.G.), (*Siroda*) ; Jaisingh Rao Rane (M.G.), (*Tivim*) ; Jiwa Bhagdo Gaonkar (M.G.), (Nominated) ; Shantaram M. Kamble (M.G.), (Nominated).

GUJARAT LEGISLATIVE ASSEMBLY

Constituencies 168; S.C. 11; S.T. 21.

Speaker : R. Leuva; *Dy. Speaker* : Vasantlal V. Mehta.

An estimate of party position is given below : Congress : 99; Swatantra : 57; P.S.P. : 3; S.S.P. : 1; Janta Parishad : 1; Jan Sangh : 1; Independent : 5; Vacant : 1.

Premji Bhavanji Thacker (Cong.), (*Abadasa*); Shambhubhai Devji Patel (Cong.), (*Alia*); Narsinhdas Gordhandas Gondhiya (Cong.), (*Amreli*); Shankerbhai Desaiabhai Vaghela (Cong.), (*Anand*); Smt. Nirmalaben Hassanand Gajwani (Cong.), (*Anjar*); Vacant (*Ankleshwar*); Manharlal Tuljashanker Shukla (Cong.) (*Asarva*); Jinabai Devrajibhai Kansagra (Cong.), (*Babra*); Natwarsinh Kesarisinhji Solanki (Swa.), (*Balasinar*); Ratanbhai Govindbhai Gavit (S.T.) (P.S.P.), (*Bansda*); Bhulabhai Vithalabhai Patel (Cong.), (*Bardoli*); Chandrakant Muljibhai Parikh (Swa.), (*Baroda City*); Khodubha Abhesinh Vaghela (Swa.), (*Baroda, (Rural)*); Levjibhai Sadabhai Parmar (S.C.) (Swa.), (*Bayad*); Lalsinhji Kishorsinhji Rahewar (Swa.), (*Bayad*); Madhavsinh Fulsinh Solanki (Cong.), (*Bhadran*); Pratapray Tarachand Shah (Cong.), (*Bhavnagar*); G. J. Trivedi (Cong.), (*Bhiloda*); Dr. Mahipatray Mul Shankar Mehta (Cong.), (*Bhuji*); Ramanbhai Dhanabhai Patel (Cong.), (*Borsad*); Pravinchandrasinhji Gambirsinhji (Cong.), (*Botad*); Chandrashanker Manishanker Bhatt (Cong.), (*Broach*); Keshavbhai Ratanji Patel (Cong.), (*Bulsar*); Madhavalal Bhailabhai Shah (Cong.) (*Cambay*); Bhogilal Kanjibhai Patel (Swa.), (*Chanasma*); Bhajibhai Garbadbhai Tadv (S.T.), (Cong.), (*Chhota Udepur*); Smt. Arunaben Gambhirbhai Patel (S.T.), (Cong.), (*Chikhali*); Urmilaben Premshanker Bhatt (Cong.), (*Chorasi*); Dharmendrasinhji Bahadursinhji Rana (Swa.), (*Chotila*); Narharilal Ishwarlal Purohit (Swa.), (*Dabhoi*); Fuljibhai Dosjibhai Patel (Cong.), (*Danta*); Trikam Lal Jamnadas Patel (Cong.), (*Dariapur-Kajipur*); Chunilal Popatlal Chudgar (Swa.), (*Dasada*); Vadilal Lallubhai Mehta (Ind.), (*Daskroi*); Chunilal Bijalabhai Vasava (S.T.) (Swa.) (*Dediapada*); Shantilal Swarupchand Shah (Cong.), (*Deesa*); Manharbhai Chandulal Shah (Swa.), (*Dehgam*); Gumansinhji Viramshinhji Vaghela (Cong.), (*Deodar*); Shrijaideepsinhji (Swa.), (*Devgad-Baria*); Vinubhai Bhagvandas Kotdawala (Swa.), (*Dhandhuka*); Balashanker Jeyshanker Joshi (Swa.), (*Dhanera*); Bahadurbhai Kuthabhai Patel (S.T.) (Cong.), (*Dharampur*); Raghavji Thobhanbhai Leuva (S.C.) (Cong.), (*Dhari-Kodinar*); Kantilal Fulchandbhai Ghiya (Cong.), (*Dholka*); Mohanlal Gokalbhai Patel (Cong.), (*Dhoraji*); H. M. Patel (Swa.), (*Dhrangadhra*); Javsinh Mansinh Solanki (S.T.) (Cong.), (*Dohad*); Kesubhai Gokaldas Raichura (Cong.), (*Dwarka*); Ratilal Khushaldas Patel (Ind.), (*Ellisbridge*); Ganjitsinhji Bhavsinhji Gohil (Swa.), (*Gadhada*); Thakorabhai Manibhai Desai (Cong.), (*Gandevi*); Shamalbhai Lallubhai Patel (Swa.), (*Gandhinagar*); Dhirajlal Bakordas Mehta (Cong.), (*Ghogha*); Gaurishankar Dhaneshwar Pathak (Swa.) (*Godhra*); Balubhai Harjibhai Patel (Cong.), (*Gondal*); Amarsinh Deepcrinh Parmar (Cong.), (*Halol*); Daljitsinhji Hamatsinhji (Swa.), (*Himatnagar*); Manabhai Revabhai Bhambhai (S.C.) (Swa.), (*Idar*); Gonsaibhai Chhibabhai Patel (Cong.), (*Jalalpore*); Abdulrahim Tajuji Kundiwala (Swa.), (*Jamalpur*); Vinodchandra Chunilal Shah (Cong.), (*Jambusar*); Nathalal Premjibhai Patel (Swa.), (*Jam-Jodhpur*); Liladhar Pranjan Patel (Swa.), (*Jamnagar*); Shivraj Kumar Khachar (Swa.), (*Jasdan*); Naranbhai Kalidas Patel (Cong.), (*Jetpur*); Manekbhai Somabhai Tadv (S.T.) (Swa.), (*Jetpur*); Zinabhai Ramsangbhai Vasava (S.T.) (Cong.), (*Jhaghadia*); Smt. Hiraben Lalchand Ninama (S.T.) (Cong.), (*Jahalod*); Chandrasinghji Dip-singhji Jadeja (Swa.), (*Jodiaya*); Bhailabhai Manilal Patel (Swa.) (*Jotana*); Prabhulal Kanji Dave (Cong.),

(*Junagadh*); Palabhai Narandas Parmar (S.C.) (Swa.), (*Kadi*); Bhanji Bhimji Patel (Cong.), (*Kalawad*); Arjunsinh Bharatsinh Thakor (Cong.), (*Kalol*); Vijaysinh Bharatsinh Chauhan (Swa.), (*Kalol*); Manubhai Harilal Palkhiwala (S.S.P.), (*Kalupur*); Jesinghbhai Govindbhai Parmar (S.C.) (Cong.), (*Kankaria*); Jayantilal Virchand Shah (Cong.), (*Kankrej*); Kashturbhai Nagindas Doshi (Swa.), (*Kapadwanj*); Nagjibhai Govindbhai Arya (S.C.) (Cong.), (*Karjan*); Abhesinh Kodarbhai Parmar (Swa.), (*Kathlal*); Dharmasinhbhai Dahyabhai Patel (Swa.), (*Keshod*); Marthandaray Gangashanker Shastri (P.S.P.), (*Khadia*); Dwarakadas Vithaldas Barai (Swa.), (*Kham-bhalia*); Jethabhai Bhurabhai Rathod (S.T.) (Swa.), (*Khedbrahma*); Dr. Vasantlal Vrijlal Parikh (Ind.), (*Kheralu*); Bhagwanbhai Kanjibhai Patel (Swa.), (*Kundla*); Bechar Bhagvanji Gajera (Swa.), (*Kutiyana*); Smt. Sumitaben Hariprasad Bhatt (Cong.), (*Lathi*); Haribhai Ratanbhai Doria (S.C.) (Swa.), (*Limbdi*); Titabhai Meghajibhai Hathila (S.T.) (Cong.), (*Limdi*); Virsinh Bhulabhai Pasaya (S.T.) (Swa.), (*Limkheda*); Kamla-shanker Bhuleswar Dave (Swa.), (*Lunavada*); Amarsinh Bhupatsinh Vaghela (Swa.), (*Mahudah*); Chhotubhai Nathubhai Rathod (S.T.) (Cong.), (*Mahuva*); Chhabildas Pragjibha Mehta (Cong.), (*Mahuva*); Kanjibhai Kacharabhai Mori (Cong.), (*Malia*); Manharbhai Amrabhai Chavda (S.C.) (Cong.), (*Manavadar*); Jumakhlal Laxmichand Mehta (Cong.), (*Mandvi*); Prabhubhai Dhanabhai Patel (S.T.) (Cong.), (*Mandvi*); Naran Pala Gadha (Cong.), (*Mangrol*); Ramjibhai Rupabhai Chaudhari (S.T.) (Cong.), (*Mangrol*); Chunibhai Ganeshdas Patel (Swa.), (*Mansa*); Smt. Gangaben Amritlal Vaghela (S.C.) (Cong.), (*Matar*); Jamubhai Punjiram Bhatt (Swa.), (*Meghraj*); Jalamsinh Himatsinhji Jadav (Cong.), (*Mehmedabad*); Purushot-tamdas Patel (Cong.), (*Mehsana*); Naranbhai Shivji-bhai Patel (Swa.), (*Modada*); Vasantlal Valabhdas Mehta (Swa.), (*Morvi*); Ramubhai Balubhai Jadav (S.T.) (Cong.), (*Mota Pondha*); Virji Bhimji Dafada (S.C.) (Cong.), (*Mundra*); Babubhai Jashbhai Patel (Cong.), (*Nadiad*); Himatbhai Mathurbhai Rajvadi (S.T.) (Cong.), (*Nandod*); Virumal Khushaldas Tarachandani (Cong.), (*Naroda*); Parsotambhai Ukedbhai Bhil (S.T.) (Cong.), (*Nasvadi*); Suleman Usaf Unia (Cong.), (*Navsari*); Hitendrabhai Kanaiyalal Desai (Cong.), (*Olpad*); Jashavantilal Saubhagyachand Shah (Cong.), (*Padra*); Anandlal Chimanlal Mehta (Cong.), (*Palanpur*); Dalsukhbhai Jerambhai Patel (Cong.), (*Palitana*); Uttambhai Harjibhai Patel (S.T.) (Cong.), (*Pardi*); Vijaykumar Madhaval Trivedi (Cong.), (*Patan*); Anvarbeg Ahmedbeg Mirza (Cong.), (*Petlad*); Popatlal Dahyabhai Kakkad (Cong.), (*Porbandar*); Narendrasinh Agarsinhji Jhala (Swa.), (*Prantij*); Raysinhji K. Jadeja (Swa.), (*Radhanpur*); Chimanlal Harilal Shukla (J.S.), (*Rajkot-1*); Manohar-sinhji Pradyumansinhji Jadeja (Ind.), (*Rajkot-2*); Jashwantray Nanubhai Mehta (Cong.), (*Rajula*); Shantilal Ranchhoddas Shah (Cong.), (*Rakhial*); Sanatkumar Maganlal Mehta (P.S.P.), (*Raopura*); Bhupendrasinhji Gaisinhji Jadeja (Swa.), (*Rapar*); Ramubhai Jethabhai Bhatia (Swa.), (*Satia*); Karshanbhai Haribhai Chaudhari (Cong.), (*Sami*); Dahyabhai B. Jadav (Cong.), (*Sanand*); Kishorsinh Kalusinh Parmar (Cong.), (*Santrampur*); Bhailabhai Dyabhai Patel (Swa.), (*Sarsa*); Manibhai Asharam Shah (Cong.), (*Savli*); Fatesinhrao Pratap-sinhrao Gaekwad (Cong.), (*Sayajiganj*); Dr. Somabhai C. Desai (J.P.), (*Shahpur*); Parvatsinh Ghamirsinh Parmar (Cong.), (*Shahera*); Chimanbhai Jivabhai Patel (Cong.), (*Shankheda*); Madhavalal Lalluram Pandya (Cong.), (*Sidhpur*); Manubhai Pancholi (Cong.), (*Sihor*); Indubhai Chaturbhai Patel (Cong.), (*Sojitra*); Keshar Bhagwan Dodiya (Swa.), (*Somnath*); Bhimsinghbhai Fojsinh Vasava

(S.T.) (Swa.), (*Songadh*); Gordhandas Ranchhoddas Chokhawala (Cong.), (*Surat City East*); Papatlal Mulshanker Vyas (Cong.), (*Surat City North*); Gollandaz Mohmed Husein Abdul Shamad (Cong.), (*Surat City West*); Shivabhadrasinhji Krishnakumarsinhji Gohil (Swa.), (*Talaja*); Smt. Vasantben Jaisukhbhai Shah (Cong.), (*Tankara*); Madhubhai Dadubhai Desai (Swa.), (*Thasra*); Satubhai Devubhai Thakaria (S.T.) (Cong.), (*Umergaon*); Udesinh Virsinh Vadodiya (Swa.), (*Umreth*); Parmananddas Jivabhai Oza (Cong.), (*Una*); Shankerlal Mohanlal

Patel (Swa.), (*Unjha*); Jayaram Anandbhai Patel (Cong.), (*Upleta*); Navalchand Motilal Kansara (Cong.), (*Vagra*); Gangaram Chunilal Raval (Cong.), (*Vijapur*); Govindbhai Haribhai Patel (Cong.), (*Viramgam*); Kurji Dungar Patel (Swa.), (*Visavadar*); Smt. Shantaben Bholabhai Patel (Cong.), (*Visnagar*); Bhimsingbhai Sivabhai Gamit (S.T.) (Cong.), (*Vyara*); Surendrasinhji Joravarsinhji Jhala (Swa.), (*Wadhwan*); Mangaldas Gordhandas Pola (Cong.), (*Waghodian*); Digvijaysinhji Pratapsinhji (Swa.), (*Wankaner*); Jagtabhai Pulabhai Parmar (S.C.) (Swa.), (*Wav*).

HARYANA VIDHAN SABHA

Seats : 81.

Estimated Party Position : State Congress : 43; Jan Sangh 7; Vishal Haryana Party 14; BKD 1; Swatantra 2; RPI : 1; Independents : 5; RMKP : 8.

Speaker : Brig. Ran Singh; Deputy Speaker : Mrs. Lekhwati Jain.

Chaudhry Bhajan Lal (Cong.), (*Adam Pur*); Mrs. Lekhwati Jain (Cong.), (*Ambala*); Bagwan Dass Sehgal (J.S.), (*Ambala Cant.*); Rao Birendra Singh (V.H.P.), (*Ateli*); Chand Ram (Ind.), (*Bobain*); Maj. Amir Singh (V.H.P.), (*Badhra*); Chaudhry Partap Singh (Cong.), (*Badopal*); Chaudhry Partap Singh Daulatpur (V.H.P.), (*Bahadurgarh*); Smt. Sharda Rani (Cong.), (*Ballabgarh*); Shyam Chand (V.H.P.), (*Baroda* (R)); Chaudhry Goverdhan Dass Chauhan (Cong.), (*Barwala* (R)); Ch. Jeessukh (S.C.) (Cong.), (*Bawat*); Subedar Parbhu Singh (Cong.), (*Bawani-khera* (R)); Brig. Ran Singh* (*Beri*); Banarsi Das Gupta (Cong.), (*Bhiwani*); Chaudhry Prabhu Ram (Cong.), (*Chhachrauli*); Chaudhry Surjit Singh (Cong.), (*Cherhadad*); Teja Singh (Ind.), (*Dabwali*); Ganpat Rai (S.C.) (R.M.K.P.), (*Dadri*); Lal Chand Khod (V.H.P.), (*Ellenabad*); Kamal Dev Kapil (R.M.K.P.), (*Faridabad*); Chaudhry Pokar Ram Godara (Cong.), (*Fatehbad*); Abdul Razzaq Khan (V.H.P.), (*Ferozepur*); Randhir Singh (J.S.), (*Gheraunda*); Ram Dhari Gaur (R.M.K.P.), (*Gohana*); Mahabir Singh (R.M.K.P.), (*Gurgaon*); Chaudhry Hari Singh Saini (Cong.), (*Hansi*); Manohar Singh Azad (Cong.), (*Hassan Pur*); Maru Singh Malik (Cong.), (*Hassangarh*); Chaudhry Hem Raj Schravat (Cong.), (*Hathin*); Balwant Rai Tayal (K.D.P.), (*Hissar*); Smt. Prasanni Devi (Cong.), (*Indri*); Dr. Rameshwar Dass Gupta (Cong.), (*Jagadhri*); Rao Sis

Ram (V.H.P.), (*Jalusana*); Daya Krishna (Cong.), (*Jind*); Mahant Ganga Sagar (R.M.K.P.), (*Jhajjur*); Narain Singh (Swa.), (*Julana*); Banwari Ram (R.P.), (*Jundla* (R)); Rajinder Singh (Cong.), (*Kailana*); Smt. Om Prabha Jain (Cong.), (*Kaithal*); Sat Ram Dass (Cong.), (*Kalanaur*); Bhagtu Ram (R.M.K.P.), (*Kalayan* (R)); Lala Kishori Lal (Cong.), (*Kalka*); Chaudhry Dalip Singh (V.H.P.), (*Kanina*); Shanti Prasad Jaiswal (Ind.), (*Karnal*); Ranbir Singh (Cong.), (*Kiloli*); Smt. Chandravati (Cong.), (*Laharu*); Raj Singh Dalal (Cong.), (*Mahem*); Hari Singh Yadav (V.H.P.), (*Mahendragarh*); Chaudhry Ram Prakash (Cong.), (*Mul-lana*); Ch. Sarup Singh (Cong.), (*Mundhal Khurd*); Khan Abdul Ghaffar Khan (Cong.), (*Nangal*); Chaudhry Lal Singh (Cong.), (*Naraingarh*); Ram Saran Chand Mitta (Cong.), (*Narnaul*); Joginder Singh (Swa.), (*Narnaund*); Chaudhry Neki Ram (Cong.), (*Narwana*); Jai Singh Rath (R.M.K.P.), (*Naultha*); Chaudhry Chanda Singh (Ind.), (*Nilokheri*); Khurshed Ahmed (Cong.), (*Nuh*); Ruplal Mehta (Cong.), (*Palwal*); Feteah Chand Vij (J.S.), (*Panipat*); Rao Ram Jiwan Singh (V.H.P.), (*Pataudi*); Piara Singh (Ind.), (*Pehowa*); Iswar Singh (Ind.), (*Pundri*); Chaudhry Jaswant Singh Chauhan (Cong.), (*Rai*); Ran Singh (Cong.), (*Rajaund* (R)); Rajkumari Sumitra Devi (V.H.P.), (*Rewari*); Kanwar Singh Dahiya (R.M.K.P.), (*Rohat*); Mangal Sein (J.S.), (*Rohtak*); Chaudhry Harkishan Lal Kamboj (Cong.), (*Rori*); Satya Narain Syngol (V.H.P.), (*Safidon*); Mrs. Shakuntala (V.H.P.), (*Sahlwas* (R)); Katar Singh Chhukar (Cong.), (*Sambhalka*); Chaudhry Jagdish Chander (Cong.), (*Shahabad*); Prem Sukh Dass (Cong.), (*Sirsa*); Kanahya Lal Poswal (Cong.), (*Sohana*); Mukhtiar Singh (J.S.), (*Sonepat*); Om Prakash Garg (Cong.), (*Thanesar*); Harpal Singh (Cong.), (*Tohana*); Bansi Lal (Cong.), (*Tosham*); Dr. Mallikchand Gambhir (J.S.), (*Yamuna Nagar*).

HIMACHAL PRADESH VIDHAN SABHA

Seats : 61 (S.C. 14, S.T. 1). Elected : 58; Nominated : 3.

Speaker : Des Raj Mahajan.

Dy. Speaker : Amin Chand.

An estimate of party position is as follows : Congress 42 (including three nominated); Jan Sangh 7; Independent 13; Communist 2.

Hari Ram (Cong.), (*Amb.*); Hira Singh Pal (Ind.), (*Arki*); Bansi Ram (C.P.I.), (*Baijnath*); Piru Ram (S.C.) (Cong.), (*Balk*); Des Raj Mahajan (Cong.), (*Banikhet*); Indar Singh (J.S.), (*Bhattiyat*); Ram Chand (Ind.), (*Bharmaur*); Dhian Singh (J.S.), (*Bhota*); D. R. Shankhyan (Cong.), (*Bilaspur*); Karam Singh (Cong.), (*Chachiot*); Kishori Lal (J.S.), (*Chamba*); Kewal Ram Negi (Ind.), (*Chopal*); Ved Bhushan (Ind.), (*Dehra*); Kashmir Singh (Cong.), (*Dharampur*); Rana Kultar Chand (Cong.), (*Dharamsala*); Lekh Ram (Ind.), (*Doon*); Dhinoor Ram (S.C.) (Cong.), (*Gangath*); Mehnga Singh (S.C.) (Cong.), (*Gagret*); Nikkoo Ram (S.C.) (Cong.), (*Geharwin*); Khazan Singh (Cong.), (*Ghumarwin*); Hari Singh (Cong.), (*Gopalpur*); Churamani (Ind.), (*Gulir*); Kanshi Ram (J.S.), (*Hamirpur*); Paras Ram (C.P.I.), (*Jaswan*); Ram Chandra (Cong.), (*Jawali*); Gopi Rao (S.C.) (Cong.), (*Joginder-*

nagar); Ram Lal (Cong.), (*Jabbal*); Nek Ram Negi (S.C.) (Cong.), (*Kandaghat*); Hari Ram (Cong.), (*Kangra*); Mansa Ram (S.C.) (Cong.), (*Karsog*); Sita Ram (Cong.), (*Kasumpti*); T. S. Negi (S.T.) (Ind.), (*Kinnaur*); Lall Chand Prarthi (Cong.), (*Kulu*); Ranjit Singh (Ind.), (*Kutlehar*); Sh. Devising (Ind.), (*Lahaul-Spiti*); Sukh Ram (Cong.), (*Mandi*); Amar Singh (S.C.) (J.S.), (*Mewa*); Babu Ram (Cong.), (*Nadaum*); Amin Chand (Cong.), (*Nadaunta*); Hardial (Cong.), (*Nagrota*); Tapindra Singh (Cong.), (*Nahan*); Arjan Singh (Cong.), (*Nalagarh*); Kartar Singh (Cong.), (*Nurpur*); Zalam Singh (S.C.) (Cong.), (*Pachhad*); Kunj Bihari Lal (Cong.), (*Palampur*); Guman Singh Chauhan (Cong.), (*Paonta*); Dr. Y. S. Parmar (Cong.), (*Rainka*); Wazir Chand (S.C.) (Cong.), (*Rajir*); Vidya Dhar (S.C.) (Cong.), (*Rajnagar*); Nalu Ram (S.C.) (Ind.), (*Rampur*); Padam Dev (Cong.), (*Rohru*); Vidya Sagar (Ind.), (*Santokhgarh*); Dile Ram Shabab (Cong.), (*Seraj Inner*); Ishar Das (S.C.) (Cong.), (*Seraj Outer*); Daulat Ram Chauhan (J. S.), (*Simla*); Keshav Ram (S.C.) (Cong.), (*Solan*); Durga Chand (J.S.), (*Sulah*); Lachhmi Datt (Cong.), (*Sundernagar*); Jai Behari Lal Khachi (Ind.), (*Theog*); Prakash Chand (Cong.), (*Una*); Nominated : Brahmanand (Cong.), (*Kangra*); N. L. Verma (Cong.), (*Simla*); Surat Singh Vaid (Cong.), (*Sirmur*).

* It is reported that Moh'd Akhtar and Sardar S. Singh have joined the Congress Legislature Party.

JAMMU AND KASHMIR LEGISLATIVE ASSEMBLY

Seats: 75 (including 6 seats reserved for Schedule Castes); Electorate: 20,30,366.

Speaker: Shamas-ud-Din.

Dy. Speaker: Beli Ram.

An estimate of party position is given below: Congress 61; National Conference 5; Jan Sangh 3; Independent 2; Vacant 4.

Dharma Pal (Cong.), (*Akhnoor*); Gulam Mohmad Sadiq (Cong.), (*Amira Kadal*); Shamasud-Din (Cong.), (*Anantnag*); Abdul Rahman Mia (*Badgam*); Moh'd Anwar Khan (Cong.), (*Bandipora*); Moh'd Akhtar* (N.C.), (*Banihal*); Shamas Ud Din (N.C.), (*Baramulla*); Mahant Ram (Cong.), (*Basohli*); Khaliq Mir (Cong.), (*Beerwa*); Jagat Ram Aryan (S.C.) (Cong.), (*Bhaderwah*); Mufti Moh'd Sayed (Cong.), (*Bajbehara*); Randhir Singh (Cong.), (*Billawar*); Bhagar Chajjoo Ram (S.C.) (Cong.), (*Bishnah* (R)); Ghulam Moh'd Mir (Cong.), (*Chadora*); Abdul Qayoom (Cong.), (*Chararsharif*); Chajjoo Ram (Cong.), (*Chhamb*); Vacant (*Dharhal*); Manohar Nath Kaul (Cong.), (*Devsar*); Lassar Wani (Cong.), (*Doda*); Salam Yatu (Cong.), (*Ganderbal*); Mohammad Ayub Khan (Cong.), (*Ghulab Garh*); Sardar Surrinder Singh* (N.C.), (*Gulmarg*); Srikant Kaul (Cong.), (*Haba Kadal*); Abdul Gani Lone (Cong.), (*Handwara*); Abdul Gani Mir (Cong.), (*Hari*); Moh'd Yahya Siddiqi (Cong.), (*Hazaratbal*); Abdul Gani Goni (Cong.), (*Inderwal*); Trilochan Dutta (Cong.), (*Jammu Cantt.*); Prem Nath Dogra (J.S.), (*Jammu North*); Ram Nath (J.S.), (*Jammu South*); Kanwar Ranjit Singh (Cong.), (*Jandra-Garota*); Girdhari Lal Dogra

(Cong.), (*Jasmugarh*); Bashir Ahmed-Mian (Cong.), (*Kangan*); Kachoo Mohi Ali (Cong.), (*Kargil*); Mohamad Younis (Cong.), (*Karnah*); Panjabu Ram (S.C.) (Cong.), (*Kathua* (R)); Ghulam Ahmed (Cong.), (*Khanyar*); Abdul Gani Namthali (Cong.), (*Khansahib*); Ghulam Mustaffa (Cong.), (*Kishtwar*); Moh'd Ashraf Khan (Cong.), (*Kothar*); Moh'd Yaqub Butt (Cong.), (*Kulgam*); Moh'd Sultan Tantry (Cong.), (*Kupwara*); Sanam Wang (Cong.), (*Leh*); Ghulam Nabi Wani (Cong.), (*Lolab*); Guran Ditta Mal (S.C.) (Cong.), (*Marh* (R)); Mohammad Aslam (Cong.), (*Mendhar*); Abdul Rahman (Cong.), (*Nandi*); Abdul Aziz (Cong.), (*Noorabad*); Hassan-ud-Din (Cong.), (*Nowbug*); Beli Ram (Cong.), (*Nowshera*); Makhan Lal (Cong.), (*Pahalgam*); Peer Mubarak Shah (Cong.), (*Pampore*); Ghulam Rasool Dar (Cong.), (*Pattan*); Mir Ghulam Moh'd (Cong.), (*Poonch*); Sana Ullah Master (Cong.), (*Pulwama*); Ghulam Rasool Kar (Cong.), (*Raftabad*); Abdul Rashid (Cong.), (*Rajouri*); Ghulam Qadir Mir (Ind.), (*Rajpura*); Hans Raj (Cong.), (*Ramban*); Dina Nath (Cong.), (*Ramgarh*); Chandu Lal (S.C.) (Cong.), (*Ramnagar*); Bansil Lal Kohistani (Cong.), (*Reasi*); Kulbir Singh (Cong.), (*R. S. Pora*); Gazi Abdul Rehoman (*Safa Kadal*); Parmanand (S.C.) (Cong.), (*Samba* (R)); Abdul Aziz Parrey (Cong.), (*Sonawari*); Ghulam Nabi Mircha (Cong.), (*Sopore*); Shamin Ahmed Shamin (Ind.), (*Spopian*); Noor Mohammad (Cong.), (*Tankipora*); Shiv Charan Gupta (J.S.), (*Tikri*); Ali Mohammed Naik (Ind.), (*Tral*); Hem Raj Jandial (Cong.), (*Udampur*); Mohamad Muzaffar Khan (Cong.), (*Uri*); Mir Qasim† (Cong.), (*Verinag*); Syed Abdulla (N.C.), (*Zadibal*).

JAMMU AND KASHMIR LEGISLATIVE COUNCIL

Strength: 36.

Chairman: Pt. Shiv Narayan Fotedar; *Deputy Chairman*: Chunilal Sharma.

Elected by the Legislative Assembly: Joytshi Ram Krishen, Sardar Piara Singh, Lakshman Singh Charak, Peer Ghais-ud-Din Moh'd Aqbal, Ghulam Mustafa, Ghulam Qadir Bhat Bedar, Amirullah Khan, Munshi Habibullah, Jatinder Dev, Sonaulah, Maulvi Mohammad Anwar Shah Masodi, Sardar Gurmakh Singh, Moh'd

Din Bandey, Sardari Lal Mahajan, Dina Nath Sharm, Sonama Narboo, Harnam Singh, Vacant—Vacant.

Elected by Local Authorities: Dina Nath Mahajan, Piarey Lal Karikallo.

Panchayat Constituency: Maggat Ram Sharma, Moti Ram, Ghulam Ahmad Mir Sallar, Vacant.

Nominated by the Governor: Ghulam Jeelani, Major Piar Singh, Peer Saif-ud-Din Makhdoomi, Mohammad Shaffi, Ramchand Mahajan, Haji Mir Alam Naqashbandi, Vacant, Vacant.

KERALA LEGISLATIVE ASSEMBLY

Constituencies: 134 (including one nominated); Seats: 134.

Speaker: D. Damodaran Potti.

Deputy Speaker: M. P. Mohammed Jaffer Khan.

An estimate of party position is given below: Communist Party of India (Marxist) C.P.I.(M), 51; Communist Party of India (C.P.I.) 20; Muslim League (M.L.) 13; Kerala Samyuktha Socialist Party (K.S.S.P.) 12; Samyuktha Socialist Party (S.S.P.) 6; Revolutionary Socialist Party (R.S.P.) 6; Karshaka Thozhilali Party (K.T.P.) 2; Kerala Socialist Party (K.S.P.) 1; Indian National Congress (Cong.) 9; Kerala Congress (K.C.) 5; Independents including one nominated member 6; Seats vacant 3.

P. Ramalingam (C.P.I.), (*Adoor*); J. A. Chacko (K.C.), (*Akalakunnam*); R. Krishnan (C.P.I.)-(M), (*Alathur*); T. V. Thomas (C.P.I.) (*Alleppey*); M. K. A. Hameed (C.P.I.-M.—Ind.), (*Alwaye*); V. S. Achyuthanandan (C.P.I.-M.), (*Ambalapuzha*); A. P. Kurian (C.P.I.-M.), (*Ankamali*); P. N. Chandrasenan (K.S.S.P.), (*Aranmula*);

Smt. K. R. Gauri Thomas (C.P.I.-M.), (*Aroor*); Mattapalli Majeed (S.S.P.), (*Aryanaad*); V. Sreedharan (C.P.I.-M.), (*Attungal*); M. Krishnan (S.S.P.), (*Badagara*); A. K. Appu (K.S.S.P.), (*Balusseri*); K. Chathunni Master (C.P.I.-M.), (*Beyyore*); P. C. Raghavan Nair (C.P.I.-M.), (*Calicut-I*); P. M. Abubacker (M.L.) (*Calicut-II*), E. Ahmed (M.L.), (*Cananore*); D. Damodaran Potti (S.S.P.), (*Chadayamangalam*); P. P. George (Cong.), (*Chalakkudy*); K. G. Neelakantan Namboodiripad (C.P.I.), (*Changanacherry*); P. Kunhan (S.C.) (C.P.I.-M.), (*Chelakkara*); P. Ravindran (C.P.I.), (*Chathannur*); P. G. Purushottam Pillai (C.P.I.-M.), (*Chenganur*); K. A. Sivarama Bharathy (S.S.P.), (*Chittur*); P. K. Gopalakrishnan (C.P.I.), (*Cran-gannore*); N. Ganapathy (S.C.) (Cong.), (*Devicolum*); C. Kannan (C.P.I.-M.), (*Edakkad*); R. S. Unni (R.S.P.), (*Eravipuram*); Alexander Parambithara (Cong.), (*Ernakulam*); P. P. Wilson (S.S.P.), (*Ettumanoor*); B. V. Seethi Thangal (M.L.), (*Guruvayoor*); C. B. Chandrasekhara Warriar (C.P.I.-M.), (*Haripad*); N. K. Balakrishnan (S.S.P.), (*Hosdurg*); E. P. Krishnan Nambiar (C.P.I.-M.), (*Irikkur*); C. K. Rajan (C.P.I.), (*Irinjalakuda*); Joseph Chazhikkuttu (K.C.), (*Kaduthurthy*); Dr. K. George Thomas

* It is reported that Moh'd Akhtar and Sardar S. Singh have joined the Congress Legislature Party.

† Resigned from Congress Party and Legislative Assembly.

(Cong.), (*Kalloopara*); B. Wellington (K.T.P.), (*Kalpetta*); Mustafa Kamal (C.P.I.-M.), (*Kanjirapally*); M. M. Thomas (K.T.P.), (*Karimannoor*); Baby John (R.S.P.), (*Karunagappally*); U. P. Kurikullaya (Ind.), (*Kasaragod*); P. K. Kunju (K.S.S.P.), (*Kayamkulam*); M. Hakimji Sahib (M.L.), (*Kazhakuttam*); C. K. Balakrishnan (S.C.) (C.P.I.-M.), (*Kilimanoor*); P. S. Namboodri (C.P.I.), (*Kodakara*); C. Vasudeva Menon (C.P.I.-M.), (*Kollengode*); Sayed Ummer Bafakih (M.L.), (*Kondotty*); Pandalam P. R. Madhavan Pillai (C.P.I.), (*Konni*); T. M. Meethiyan (C.P.I.-M.), (*Kothamangalam*); E. Chandrasekharan Nair (C.P.I.), (*Kottarakara*); M. K. George (C.P.I.-M.), (*Kottayam*); J. Camalias Moraes (Ind.), (*Kovalam*); P. Unnikrishna Pillai (C.P.I.), (*Krishnapuram*); P. K. Sukumaran (C.P.I.-M.), (*Kundara*); V. Kuttikrishnan Nair (S.S.P.), (*Kunnamangalam*); A. S. N. Nambissan (C.P.I.-M.), (*Kunnamkulam*); M. K. Krishnan (S.C.) (C.P.I.-M.), (*Kunnathunad*); K. Chandrasekhara Sastri (R.S.P.), (*Kunnathur-S.C.*); K. K. Aboo (S.S.P.), (*Kuthuparamba*); K. K. Kumara Pillai (R.S.P.), (*Kuttanad*); C. M. Kuttu (M.L.), (*Kuttiappuram*); O. Koran (S.C.) (K.S.S.P.), (*Kuzamannam*); Mathai Manjooran (K.S.P.), (*Madaye*); K. Karunakaran (Cong.), (*Malai*); Vacant, (*Malampuzha*); C. Ahmed Kutty (M.L.), (*Malappuram*); C. H. Mohammed Koya (M.L.), (*Mankada*); N. I. Devassykutty (Cong.), (*Manalur*); M. Chadayan (M.L.), (*Manjeri-S.C.*); K. Mahabala Bhandari (Ind.), (*Manjeshwar*); E. K. Imbuchi Bhava (C.P.I.-M.), (*Mannarghat*); S. Damodaran (C.P.I.-M.), (*Mararikulam*); M. P. Mohammed Jaffer Khan (M.L.), (*Mattancherry*); G. Gopinath Pillai (R.S.S.P.), (*Mavelikkara*); M. K. Kelu (C.P.I.-M.), (*Meppayar*); P. V. Abraham (C.P.I.), (*Muvattupuzha*); E. V. Kumaran (C.P.I.-M.), (*Nadapuram*); A. S. Purushoththaman (C.P.I.-M.), (*Narakal*); T. K. Krishnan (C.P.I.-M.), (*Nattika*); K. G. Kunjukrishna Pillai (C.P.I.), (*Nedumangad*); M. Sadasivan (C.P.I.-M.), (*Nemom*); R. Gopalakrishnan Nair (Cong.), (*Neyyattinkara*); K. Kunjali (C.P.I.-M.), (*Nilambur*); V. V. Kunhambu (C.P.I.-M.), (*Nileswar*); A. V. Aryan

(C.P.I.-M.), (*Ollur*); P. P. Krishnan (C.P.I.-M.), (*Ottupalam*); K. M. Mani (K.C.), (*Palai*); R. Krishnan (C.P.I.-M.), (*Palghat*); P. Gangadharan (C.P.I.-M.), (*Palluruthy*); P. K. Kunjachan (S.C.) (C.P.I.-M.), (*Pandalam*); N. Gamalil (Cong.), (*Parassala*); K. T. George (Cong.), (*Parur*); K. Karunakaran Nair (C.P.I.-M.), (*Pathanamthitta*); P. K. Raghavan (S.C.) (C.P.I.), (*Pathanapuram*); E. M. S. Namboodripad (C.P.I.-M.), (*Pattambi*); A. V. Kunhambu (C.P.I.-M.), (*Payyannur*); K. I. Rajan (S.C.) (C.P.I.-M.), (*Peermade*); V. V. Dakshinamoorthy (C.P.I.-M.), (*Perambra*); P. R. Kurup (K.S.S.P.), (*Peringalam*); Paloli Mohammed Kutty (C.P.I.-M.), (*Perinthalmanna*); P. Govinda Pillai (C.P.I.-M.), (*Perumbavoor*); V. P. Cherukoya Thangal (M.L.), (*Ponnani*); K. M. George (K.C.), (*Poonjar*); M. N. Govindan Nair (C.P.I.), (*Punalur*); E. M. George (C.P.I.-M.), (*Puthupally*); P. Kunhiraman Kidav (K.S.S.P.), (*Quilandy*); T. K. Divakaran (R.S.P.), (*Quilon*); M. K. Divakaran (C.P.I.), (*Ranni*); N. Prabhakara Thandar (C.P.I.-M.), (*Sherthala*); C. Govinda Panicker (C.P.I.-M.), (*Sreekrishnapuram*); K. P. Raghava Poduval (C.P.I.-M.), (*Taliparamba*); M. Moideenkutty Haji (M.L.), (*Tanur*); K. P. R. Gopalan (Ind.), (*Tellicherry*); K. Ayukkaderkutty Naha Haji (M.L.), (*Thirurangadi*); E. John Jacob (K.C.), (*Thiruvalla*); K. C. Zacharia (C.P.I.), (*Thodupuzha*); K. Moideenkutty Haji (M.L.), (*Tirur*); K. Sekharan Nair (C.P.I.-M.), (*Trichur*); T. K. Ramakrishnan (C.P.I.-M.), (*Trippunithura*); E. T. Kunhan (S.C.) (C.P.I.-M.), (*Trithala*); B. Madhavan Nair (S.S.P.), (*Trivandrum-I*); K. C. Vama-devan (R.S.P.), (*Trivandrum-II*); K. T. Jacob (C.P.I.), (*Udumbanchola*); N. K. Seshan (K.S.S.P.), (*Vadakkanchery*); E. Balanandan (C.P.I.-M.), (*Vadakkkekara*); P. S. Srinivasan (C.P.I.), (*Vaikom*); N. Vasudevan Pillai (C.P.I.-M.), (*Vamanapuram*); Abdul Majid (C.P.I.), (*Varkala*); K. Purushoththaman Pillai (C.P.I.), (*Vazhoor*); C. S. Neelakantan Nair (K.S.S.P.), (*Vilappil*); K. K. Annan (Ind.), (*North Wynad-S.T.*); M. Ramunny (S.S.P.), (*South Wynad-S.T.*); S. P. Luiz (Ind.), (Nominated).

MADHYA PRADESH LEGISLATIVE ASSEMBLY

Seats : 297 (inclusive of one nominated) Scheduled Castes 39 ; Scheduled Tribes 61 ; Electorates : 183,85,315.

Speaker : Kashiprasad Pande.

Dy. Speaker : Ramkishore Shukla.

An estimate of party strength is as follows : Cong. 117 ; Jan Sangh 62 ; Lok Sevak Dal 92 ; Samyukta Socialist Party 9 ; Praja Socialist 8 ; Independents 5 ; Communist Party 1 ; Nominated 1 ; Vacant 3.

Narain Rao Panchi Ram (Cong.), (*Abhanpur*); Bhure Lal (S.C.) (J.S.), (*Agar (R)*); Ram Gopal Tiwari (Cong.), (*Akaltara*); Bhagirath Bhowar (S.T.) (S.S.P.), (*Alirajpur*); Madan Lal (S.C.) (J.S.), (*Alot (R)*); Rambit Gupta (J.S.), (*Amarpatan*); S. S. Jham Singh Takur (J.S.), (*Amarwada*); Bati Ram (S.C.) (L.S.D.), (*Ambah (R)*); Dr. S. N. Tripathi (L.S.D.), (*Ambikapur*); Pachchita (S.C.) (L.S.D.), (*Amanaganj (R)*); Chandmal Birdichand (Cong.), (*Anjar*); K. Kosaria (S.C.) (Cong.), (*Arang (R)*); Multan Mal Surana (L.S.D.), (*Ashoknagar*); Gopi Das Goel (S.C.) (J.S.), (*Ashta (R)*); Hargian Singh Bohare (P.S.P.), (*Attair*); Kanaihyal Mehta (L.S.D.), (*Badnagar*); Dr. G. O. Sharma (J.S.), (*Badnawar*); T. Virendra Singh (L.S.D.), (*Badevara*); Laxman (Cong.), (*Bagicha (R)*); Kailash Chandra Joshi (J.S.), (*Bagli*); Raj Bhanu Shukla (J.S.), (*Bahoriband*); Mahipal Singh (S.T.) (Cong.), (*Baihar (R)*); Ramachandra Singh Deo (L.S.D.), (*Baikunthpur*); Arjan Das (J.S.), (*Bairagarh*); Laxmi Narain Sharma (J.S.), (*Bairsiya*); Gowardhandas Khandelwal (J.S.), (*Baitul*); Jodha Singh (S.T.) (Cong.), (*Bajag (R)*); Budaru Mahadeo (S.T.) (L.S.D.), (*Bakaband (R)*); Nand Kishore Sharma (Cong.), (*Balaghat*); Hiralal Sonbojir (Cong.), (*Balod*); Rameswar

Prasad Sharma (L.S.D.), (*Baloda*); Brijal Verma (L.S.D.), (*Baloda Bazar*); Ramcharan Pujari (J.S.), (*Banda*); Than Singh (L.S.D.), (*Barasivani*); Darshan Singh (J.S.), (*Barelli*); Ravindranath Bhargava (Cong.), (*Barghat*); S. P. Chanpuria (S.S.P.), (*Bargi*); Amolak Chand Jain (Cong.), (*Barwah*); Daval Nana (S.T.) (J.S.), (*Barwani (R)*); Mahendra Bahadur Singh (Cong.), (*Basana*); Hiralal Pippal (S.C.) (L.S.D.), (*Basoda (R)*); G. D. R. Tanaskar (P.S.P.), (*Bemetara*); Dr. J. Ram Rawate (S.T.) (P.S.P.), (*Bhanupratappur (R)*); Kishorilal Hans (S.C.) (L.S.D.), (*Bhandar (R)*); Shivalal Mehta (Cong.), (*Bhatapara*); Keju Ram (L.S.D.), (*Bhathagaon*); Preet Ram Mangalu Ram (S.C.) (Cong.), (*Bhatgaon (R)*); Anup Singh Bhagwan Singh (Cong.), (*Bhikanganj*); Dharam Pal Singh Gupta (L.S.D.), (*Bhilaj*); Raghurib Singh Kuswah (S.S.P.), (*Bhind*); Gulabchand Thamod (Cong.), (*Bhojpur*); Shakir Ali Khan (C.P.I.-M.), (*Bhopal*); Darbari (S.T.) (Cong.), (*Bichhiya (R)*); Drigpal Shah Keshri Shah (S.T.) (L.S.D.), (*Bijapur (R)*); Kedar Nath Rawat (Cong.), (*Bijawar*); Dr. Ram Charan Rai (L.S.D.), (*Bilaspur*); Chitra Kant Jayaswal (Cong.), (*Bilha*); Brij Kishor Patariya (Cong.), (*Bina*); Babulal Jain (Cong.), (*Bohani*); Kalya Singh Balaji (J.S.), (*Bhonsadihi (R)*); Mohan Lal Shishir (J.S.), (*Budhni*); Paramanand Govindji Bala (J.S.), (*Burhampur*); Ramkisor Shukla (L.S.D.), (*Byauhari*); Bishnu Das (Cong.), (*Champa*); Sagar Singh Sisodiya (L.S.D.), (*Cha-*

chaura); Bhavanilal Verma (Cong.), (*Chandrapur*); T. Deo Prasad Arya (S.T.) (S.S.P.), (*Chanki* (R)); Devilal Sharma (L.S.D.), (*Chaurai*); Thakur Deep Singh (S.T.) (L.S.D.), (*Chhapara*); Mahendra Kumar Manav (Cong.), (*Chhattarpur*); Smt. Vidyawati Mehta (Cong.), (*Chhindwara*); Chandra Pratap Tiwari (P.S.P.), (*Churhat*); Magadu Ganga (S.T.) (S.S.P.), (*Chitrakot* (R)); Ram Nandan Singh (P.S.P.), (*Chitrakut*); Jagan Nath Singh (L.S.D.), (*Dabara*); Prabhu Narayan Tandan (Cong.), (*Damoh*); Paras Ram Ghurve (S.T.) (Cong.), (*Damua* (R)); Rama Boti (S.T.) (L.S.D.), (*Dantewara* (R)); Shyam Sundar Shyam (L.S.D.), (*Datia*); Vinay Kumar Diwan (Cong.), (*Denwa*); Parshu Ram (J.S.), (*Deori*); Tribhuvan Singh (S.T.) (L.S.D.), (*Deosar* (R)); Chote Lal (S.C.) (Cong.), (*Deotalab* (R)); Bhagwat Sabu (Cong.), (*Depalpur*); Krishnaji Rao Pawar (Ind.) (*Dewas*); Dr. Tuman Lal (S.C.) (Cong.), (*Dhamdah* (R)); Bhopal Rao Bissujee (Cong.), (*Dhamtari*); Vasant Rao (J.S.), (*Dhar*); Chandra Chud Prasad Singh (L.S.D.), (*Dharmajaigarh*); Fateh Bhanu Singh (S.T.) (L.S.D.), (*Dharmajauri* (R)); Munna Lal (Cong.), (*Dharsiwan*); Gorelal Bhau Singh (S.T.) (L.S.D.), (*Dhoolkot* (R)); Sumer Singh Amraiya (S.C.) (L.S.D.), (*Dimmi* (R)); Sunderlal Uraiti (S.T.) (L.S.D.), (*Didori* (R)); Jemuklal Bhedia (S.T.) (Cong.), (*Dondilohra* (R)); Madan Tiwari (S.S.P.), (*Dongargaoan*); Ganeshmal Bhandari (L.S.D.), (*Dongargarh*); Ratnakar Jha (P.R.D.), (*Durg*); Shyam Sundar Narain Mushram (Cong.), (*Godarwara*); Vacant (*Garoth*); Bhanu Pratap Singh (S.T.) (L.S.D.), (*Garghoda* (R)); Madu (S.T.) (J.S.), (*Ghoradongzi* (R)); Parvat Singh (S.T.) (Cong.), (*Ghuguri* (R)); Rao Jagdish Singh (L.S.D.), (*Gird*); Lalman Singh (S.T.) (L.S.D.), (*Gobadbanas* (R)); K. L. Kacherumal (S.C.) (L.S.D.), (*Gohad* (R)); K. N. Pradhan (Cong.), (*Govindpura*); Muni Prasad Shukla (Cong.), (*Gudh*); Inder Singh (J.S.), (*Gulana*); Raman Lal Premi (L.S.D.), (*Guna*); Vasudev Chandrakar (L.S.D.), (*Gunderdehi*); Jagdish Prasad Gupta (J.S.), (*Gwalior*); Nanhe Lal Patel (Cong.), (*Harda*); Kali Charan Sakargaye (Cong.), (*Harsud*); J. K. Bajaj (Cong.), (*Hata*); Smt. Shushheel Devi Dixit (Cong.), (*Hoshangabad*); A. B. Koramat Beg (S.S.P.), (*Indore I*); Gangaram Tiwari (Cong.), (*Indore II*); Kalyan Jain (S.S.P.), (*Indore III*); Yagyadutt Sharma (L.S.D.), (*Indore IV*); Hari Prasad Chaturvedi (Cong.), (*Itarsi*); Man Mohan Das (Cong.), (*Jabalpur Cant.*); Jagdish Narayan Awasthi (Cong.), (*Jabalpur East*); Pt. Kunjilal Dube (Cong.), (*Jabalpur West*); Deva Kosa (S.T.) (J.S.), (*Jagdalpur* (R)); Ram Prasad Singh (S.T.) (Cong.), (*Jaisinghnagar* (R)); Bhagwan Deen Gaur (S.T.) (Cong.), (*Jaipur* (R)); Bankat Lal (Cong.), (*Jaora*); Muhammad Bashir Khan (Cong.), (*Jarhagaon*); Johan (S.T.) (Cong.), (*Jashpur* (R)); Narendra Singh Judeo, (L.S.D.), (*Jatara*); Birendra Kumar Sakhlecha (J.S.), (*Jawad*); Ram Charan Lal Mishra (Cong.), (*Jawra*); Ajmer Singh (S.T.) (L.S.D.), (*Jouat* (R)); Bapu Singh (S.T.) (Cong.), (*Jhabua* (R)); Vishram Dangai (S.T.) (Cong.), (*Kankair* (R)); Smt. Vijaya Raje Sindhiya (L.S.D.), (*Karera*); Dr. Kanaiya Lal Sharma (L.S.D.), (*Kasdol*); Hemraj Jain (Ind.), (*Katangi*); Dwaraka Prasad Mishra (Cong.), (*Katangi*); B. L. Naubathram (Cong.), (*Katghora*); Th. V. Raj Singh (L.S.D.), (*Kavardha*); Takur Nathuram Mala (S.T.) (J.S.), (*Keskal* (R)); Kum. Vimala Verma (Cong.), (*Kevlari*); Virendra Singh (L.S.D.), (*Khachrod*); Maj. Raj Bahadur Virendra Bahadur Singh (P.R.D.), (*Kairagarh*); Shankarial Tiwari (Cong.), (*Khairlangi*); Krishna Rao Gadre (J.S.), (*Khandva*); Balbant Sangale (L.S.D.), (*Khargaoan*); Prabhu Dayal Chaube (Cong.), (*Khilchipur*); Rilli Ram (S.C.) (K.K.V.D.), (*Kharagpur* (R)); Hindoo Singh (J.S.), (*Khategaon*); Hari Prasad Shukla (Cong.), (*Kherji*); Kunji Lal Chaudhury (S.C.) (J.S.), (*Khurai* (R)); Jhankar Singh (Cong.), (*Kirnapur*); Jagdish Prasad Verma (L.S.D.), (*Kolaras*); M. Lachhu Ram (S.T.) (L.S.D.), (*Kondagaon* (R)); Dhansay (S.T.) (L.S.D.), (*Konta* (R));

Mathura Prasad Dube (Cong.), (*Kota*); Mrigendra Singh (L.S.D.), (*Kotma*); Chhotu Singh (S.T.) (Cong.), (*Kukshi* (R)); Tarachand Ram Dayal (Cong.), (*Kurud*); Krishna Kumar Nutan (J.S.), (*Kurwai*); S. P. Tripathi (J.S.), (*Lahar*); Vasant Rao Uike (S.T.), (Cong.), (*Lakhandon* (R)); Deveshwar Singh (J.S.), (*Lakhanpur*); Narbada Prasad Srivastawa (L.S.D.), (*Lanji*); Sheetala Sahay (J.S.), (*Lashkar*); Smt. Saroj Kumari (Cong.), (*Laundi*); Rajendra Prasad Shukla (Cong.), (*Lormi*); Chamru Virsai (S.T.) (L.S.D.), (*Lundra* (R)); Iachhman Das (S.C.) (Cong.), (*Maharajpur* (R)); Nemichand Srimal (Cong.), (*Mahesamund*); Seeta Ram Sadhu Ram (S.C.) (Cong.), (*Maheswar* (R)); Ram Chandra (J.S.), (*Mahidpur*); R. C. Jal (Cong.), (*Mahu*); Gopal Saran Singh (L.S.D.), (*Maihar*); Govind Singh Joo Deo (L.S.D.), (*Malehra*); Ved Ram (S.C.) (Cong.), (*Malkharoda* (R)); Nand Ram Das (Cong.), (*Manasa*); Shiv Bhanu Solanki (S.T.) (Cong.), (*Manawar* (R)); Smt. Narayani Devi Jha (Cong.), (*Mandla*); Thakur Mohan Singh (J.S.), (*Mandsaur*); Dharma Pal Singh (S.T.), (L.S.D.), (*Manendragarh* (R)); Rukmini Ram Pratap Singh (Cong.), (*Manwara*); Lal Chandra Sekhar Singh (S.T.), (Cong.), (*Marwahi* (R)); Budh Rao Daulat Rao (Cong.), (*Masod*); Godilprasad (S.C.), (Cong.), (*Masturi* (R)); Jagdish Prasad Tiwari (Cong.), (*Mauganj*); Rai Singh Bhadauriya (L.S.D.), (*Mehgaon*); Dharam Prasad Patra (S.C.) (Cong.), (*Maro* (R)); Jahar Singh (J.S.), (*Morena*); Ganesh Ram Anant (S.C.) (L.S.D.), (*Mungeli* (R)); Rao Chandan Singh (L.S.D.), (*Mungawli*); Balkrishna Rao Deo Rao (Cong.), (*Muttai*); Gulab Chand Gupta (Cong.), (*Mundwara*); Nareschandra Johari (J.S.), (*Morar*); Visweshwar Prasad (S.C.) (L.S.D.), (*Nagaud* (R)); Badrinath Jaideo (S.T.) (L.S.D.), (*Narainpur*); Mahendra Singh Kiledar (L.S.D.), (*Narsinghpur*); Krishna Mohan (J.S.), (*Narsinghgarh*); Jagan Nath Singh (S.T.) (Cong.), (*Nawrojabad* (R)); Khuman Singh (J.S.), (*Neemuch*); Radha Krishna (J.S.), (*Nirmarkheri*); Lala Ram Vajpayee (Cong.), (*Niwari*); Fateh Singh (S.T.) (Cong.), (*Niwas* (R)); Kunj Bihari Lal Guru (Cong.), (*Nohta*); Deosay Marabi (S.T.) (Cong.), (*Pal* (R)); Bhavar Singh (L.S.D.), (*Palari*); Mahavir Kurre (S.C.) (L.S.D.), (*Pamgar* (R)); Parmanand Bai Patel (Cong.), (*Panagar*); Phoolchand Varma (S.C.) (J.S.), (*Pandhana* (R)); Madhav Lal Dube (Cong.), (*Pandhurna*); Het Ram Dube (L.S.D.), (*Panna*); B. R. Amrit Rao (S.C.) (Cong.), (*Parasia* (R)); Pratap Lal (L.S.D.), (*Paraswada*); Smt. Asha Lata (S.C.) (L.S.D.), (*Patan* (R)); Umed Singh (S.T.) (Cong.), (*Pathalgaon* (R)); K. L. Bhav Singh (S.C.) (L.S.D.), (*Patharia* (R)); Ram Sewak (P.R.D.), (*Pawai*); Bel Singh (S.T.) (L.S.D.), (*Pettalwad* (R)); Laxmi Narain Gupta (L.S.D.), (*Pichhore*); Smt. Ratan Kumari Devi (Cong.), (*Piparia*); B. P. S. Giri Raj Singh (Cong.), (*Pithaura*); Babu Lal Arjun (S.C.), (L.S.D.), (*Pohari* (R)); Sahdeo Singh (S.T.) (J.S.), (*Premnagar* (R)); Lalan Singh (S.T.) (Cong.), (*Pushprajgarh* (R)); Vacant (*Pusaur*); Prabhu Lal Jatav (S.C.), (L.S.D.), (*Raghogarh* (R)); R. K. Laxmandas Agrawal (P.S.P.), (*Raigarh*); S. C. Raghuvir Prasad Tiwari (L.S.D.), (*Raipur*); Bije Singh (Cong.), (*Rajgarh*); Shyam Charan Shukla (Cong.), (*Rajim*); Kishori Lal Shukla (Cong.), (*Rajnandgaon*); Baraku Mahadu (S.T.) (Cong.), (*Rajpur* (R)); Pyarelal (S.T.) (Cong.), (*Rampur* (R)); Govind Narain Singh (L.S.D.), (*Rampur Baghelan*); Dr. Devi Singh (Cong.), (*Ratlam*); Raghubir Singh (L.S.D.), (*Raun*); Narmada Prasad Tiwari (J.S.), (*Rehli*); Satrugnan Singh Tiwari (Cong.), (*Reeva*); Brij Raj Singh (L.S.D.), (*Sabalgarh*); Dalchand Jain (Cong.), (*Sagar*); Smt. Indumati Devi (Cong.), (*Sakti*); Pabhu Dayal (S.T.) (Cong.), (*Sailana* (R)); Larang Say (S.T.) (J.S.), (*Samari* (R)); Babulal Kaluji (S.T.) (J.S.), (*Samwer* (R)); Kundan Lal (S.C.) (J.S.), (*Sanchi* (R)); Jai Dev Satpati (Cong.), (*Saraipali*); Kunj Ram (S.C.) (Cong.), (*Saramgarh* (R)); Ganga Ram Jatav (S.C.) (J.S.), (*Sarangpur* (R)); Babu Singh (S.T.)

(Ind.), (*Sardarpur* (R)); Smt. Kanta Parekh (Cong.), (*Satna*); M. R. Narayan Rao Chavare (Cong.), (*Sausar*); Moksha Madan Singh (S.T.) (L.S.D.), (*Seetapur* (R)); Vikala Moti (S.T.) (J.S.), (*Sendhawa* (R)); Surya Deo Sharma (L.S.D.), (*Sevoda*); Manohar Rao Jatar (Cong.), (*Sewani*); Babulal Sugandi (Cong.), (*Shahapur*); Ramesh Chandra (L.S.D.), (*Shahapur*); Sivacharan Tiwari (J.S.), (*Sheopur*); Susheel Bahadur (J.S.), (*Shivapuri*); Veerchand (J.S.), (*Shujalpur*); Keshav Prasad Singh (P.S.P.), (*Sidhi*); Pusau Ram (S.T.) (Cong.), (*Sihaba* (R)); Rajmal Mewade (J.S.), (*Sihor*); Kashi Prasad Pandey (Cong.), (*Sihora*); Prem Singh (S.T.) (L.S.D.), (*Singaroli* (R)); Yamuna Prasad Shastri (P.S.P.), (*Sirmour*); Mangal Singh (J.S.), (*Siroj*); Rajendra Singh Sisodiya (J.S.), (*Sitamau*); Krishna Pal Singh (Cong.), (*Sohagpur*); Khoobchand Golia (S.C.) (Ind.), (*Sonkutch* (R)); Brajeshwar Sharan Singh (L.S.D.), (*Surajpur*); Narmada Prasad Rai (S.C.) (J.S.), (*Surakhi* (R)); Shivalal

(J.S.), (*Susner*); Champalal Arya (S.C.) (J.S.), (*Suwasara* (R)); Manharam Lal (J.S.), (*Takhatpur*); Lal Kirti Kumar Singh (S.T.) (Cong.), (*Tanakar* (R)); Keddar Nath (S.T.) (Ind.), (*Tapkara* (R)); Madhav Singh (J.S.), (*Tarana*); Radu Singh (S.T.) (S.S.P.), (*Thandala* (R)); Gyanendra Singh (L.S.D.), (*Tikamgarh*); L. Choudhury (S.C.) (L.S.D.), (*Timrani* (R)); Kamaleswar Singh (L.S.D.), (*Tyothar*); Dr. Shankar Dayal Sharma (Cong.), (*Udaipura*); Mahadeo G. Joshi (L.S.D.), (*Ujjain North*); Ganga Ram Parmar (S.C.) (J.S.), (*Ujjain South* (R)); Arjun Singh (Cong.), (*Umaria*); Shanbhu Singh (L.S.D.), (*Vidisha*); Jag Mohan Singh (L.S.D.), (*Vijaypur*); Laxmi Shankar (Cong.), (*Vijay Raghogarh*); Kham Singh Komarra (S.T.) (J.S.), (*Vindranawagarh* (R)); Malu Ram Singhania (L.S.D.), (*Virendranagar*); Jagan Nath (J.S.), (*Viawara*); F. A. Lemos (*Jabalpur*)—Nominated.

Note :—L.S.D. = Lok Sevak Dal.

MAHARASHTRA LEGISLATIVE ASSEMBLY

Seats: 271 (including one Anglo-Indian nominee). S.C. 15; S.T. 16. Total Electorate: 19,395,795.

Speaker: T. S. Bharde, B.A., LL.B. *Dy. Speaker*: K. T. Girme, LL.B. *Secretary*: S. H. Belavadi, B.Sc., LL.B., H. (H.S.). *Dy. Secretaries*: S. R. Kharabe, B.A., LL.B., H. (H.S.); A. B. Palekar, B.A. (Hon.), LL.B.; M. J. Tamane, B.A. Dip. Ed., LL.B., H. (H.S.).

An estimate of party position is as follows: Cong. 204; S.M.S. (P.W.) 21; S.M.S. (C.P.I.) 10; S.M.S. (C.M.) 1; S.M.S. (S.S.) 5; S.M.S. (Ind.) 2; S.M.S. (M.L.) 1; D.F. (P.S.) 7; D.F. (F.B.) 2; J.S. 4; Rep. 3; Ind. 2; Nominated 1; Vacant 1.

Narsingrao S. Deshmukh (Cong.), (*Achalpur*); Moreshwar Nama Waldekar (Rep.), (*Adyar*); Kisanrao B. Mhaske (Cong.), (*Ahmednagar North*); Dr. S. V. Nisal (Cong.), (*Ahmednagar-South*); M. B. Sangvikaar (Cong.), (*Ahmedpur*); Smt. Nirmala Rajee V. Bhonsle (Cong.), (*Akkalkot*); Jamanlal S. Goenka (Cong.), (*Akola*); G. B. Khedkar (Cong.), (*Akot*); D. N. Patil (S.M.S.—P.W.), (*Alibag*); K. M. Patil (Cong.), (*Amalner*); Annasaheb A. Udan (Cong.), (*Ambad*); D. G. Walase Patil (Cong.), (*Ambe-gaon*); Laxmanrao B. Mankar (J.S.), (*Amgaon*); K. N. Nawathe (Cong.), (*Amravati*); Dr. Vasudev G. Rawal (Cong.), (*Andheri*); A. S. Paulzagade (Cong.), (*Arjuni-Morgaon*); Narayan Singh Tuke (S.T.), (Ind.) (*Armori*); J. G. Kadam (Cong.), (*Arvi*); Nivrutti V. Ugale (S.M.S.—C.P.I.), (*Ashti*); B. S. Kore (Cong.), (*Atpadi-Kavathe-Mahankal*); Vishwanath S. Jadhav, (*Aurangabad-East*); Dr. Rafiq Zakaria (Cong.), (*Aurangabad-West*); Vishwambarrao S. Musande (Cong.), (*Ausa*); K. B. Shringare (Rep.), (*Badnera*); Pandit D. Patil (Cong.), (*Baglan*); Madhusudan A. Vairale (Cong.), (*Balapur*); P. G. Kher (Cong.), (*Bandra*); S. G. Pawar (Cong.), (*Baramati*); Smt. Prabhatai S. Zadbuke (Cong.), (*Barsi*); W. A. Nayak (Cong.), (*Basmat*); H. G. Vartak (Cong.), (*Bassein*); R. J. Deotale (Cong.), (*Bhadravati*); N. K. Tirpude (Cong.), (*Bhandara*); Tikamdas D. Memjade (S.C.) (Cong.), (*Bhawani Peth*); Shivajirao Baburao Chauri (Cong.), (*Bhir*); B. S. Patil (S.M.S.—P.W.), (*Bhiwandi*); Shankarrao B. Chavan (Cong.), (*Bhokar*); Baburao J. Kale (Cong.), (*Bhokardan*); Kakasaheb alias S. M. Bhelke (Cong.), (*Bhor*); P. S. Phalak (Cong.), (*Bhusawal*); Jayaram Gangaram Ambekar (Cong.), (*Biloli*); Nilkantha S. Sapkal (Cong.), (*Borgaon-Manju*); Jamnadas G. Dattani (Cong.), (*Boriuli*); Baliram M. Gorpude (Cong.), (*Brahmapuri*); Smt. Sumanbai Shivajirao Patil (Cong.), (*Buldana*); G. B. Ganacharya (S.M.S. C.P.I.), (*Byculla*); Dinkar D. Chavan (S.C.) (Cong.), (*Chalisgaon*); Eknath P. Salve (Cong.), (*Chanda*);

V. K. Chavan-Patil (Cong.), (*Chandgad*); B. G. Jadhav (Cong.), (*Chandur*); Raghunathrao G. Gunjal (Cong.), (*Chandwad*); Vishwanathrao A. Darade (S.M.S.—C.P.I.), (*Chausala*); Hashu Parsharam Advani (J.S.), (*Chembur*); Tryambakrao B. Khedekar (Cong.), (*Chikhali*); M. D. Tumpalliwar (Cong.), (*Chimur*); P. K. Sawant (Cong.), (*Chiplun*); Maganlal Nagindas Gujarathi, (DF-Ind.), (*Chopda*); B. K. Boman Behram (Ind.), (*Colaba*); V. B. Hire (Cong.), (*Dabhadi*); Dr. Waman S. Matkar (Cong.), (*Dadar*); Mahadev G. Kadu (S.T.), (Cong.), (*Dahanu*); R. V. Bhelose (Cong.), (*Dapoli*); Narayanrao U. Deshmukh (Cong.), (*Daryanpur*); V. B. Ghuikhedkar (DF-Ind.), (*Darwaha*); Ramchandra B. Munj (DF-P.S.), (*Deogad*); Madhukar R. Ghate (S.C.) (Cong.), (*Degloor*); S. N. Deshmukh (Cong.), (*Deolali*); Dr. Mohanlal B. Popat (Cong.), (*Dhobitalao*); J. T. Pataskar (Cong.), (*Dhond*); C. N. Patil (Cong.), (*Dhulia North*); Dr. R. B. Choudhari (S.M.S.—C.P.I.), (*Dhulia South*); K. D. Mahindre (Cong.), (*Digras*); Shankar B. Potinde (S.T.) (S.M.S.—P.W.), (*Dindori*); Smt. Pratibha Devisinh Patil (Cong.), (*Edlabad*); D. S. Patil (Cong.), (*Erandol*); Vishweshwarrao Dharmarao Atram (S.T.) (D.F.—Ind.), (*Gadchiroli*); Tukaram K. Kolekar (S.M.S.—P.W.), (*Gadhinglaj*); Tryambak M. Sawant (S.C.) (Cong.), (*Gangakhed*); B. R. Pawar (Cong.), (*Gangapur*); S. T. Pawar (S.M.S.—C.P.I.), (*Georai*); Dr. Datta N. Samant (S.M.S.—Ind.), (*Ghatkopar*); A. N. Namjoshi (Cong.), (*Girgaon*); Dr. Gopalnarayan S. Bajpai (Cong.), (*Gondia*); P. D. Rahangdale (Cong.), (*Goregaon*); Mahadev Somaji Kesarkar (Cong.), (*Guhagar*); B. K. Deshmukh (Cong.), (*Hadgaon*); Babasaheb B. Khanjire (Cong.), (*Hatkanangale*); M. D. Magar (Cong.), (*Haveli*); Kesharao M. Zade (Cong.), (*Hinganghat*); Chandrakant Patil (S.M.S.—S.S.), (*Hingoli*); Shankarrao G. Chavare (S.T.) (Cong.), (*Igatpuri*); Shankarrao Bajirao Patil (Cong.), (*Indapur*); T. T. Salunke (Cong.), (*Jalgaon*); Radhakrishnan B. Jaiswal (S.M.S.—S.S.), (*Jalna-South*); B. G. Gadhe (Cong.), (*Jalna-North*); A. N. Patil (Cong.), (*Jamner*); Bhiku Daji Bhilare (Cong.), (*Jaoli*); Shivrudra T. Bamane (S.C.) (Cong.), (*Jath*); Smt. Kalavati Shankar Karavande (S.T.) (Cong.), (*Jawhar*); Sundarlal W. Kalamkar (Cong.), (*Jintur*); D. R. Kakde (Cong.), (*Junnar*); Daulatrao A. Nikam (Cong.), (*Kagal*); S. A. Solanke (Cong.), (*Kaij*); S. K. Wankhede (Cong.), (*Kalameshwar*); Devedattaji T. Mohite (Cong.), (*Kalamb*); Vithalrao C. Naik (S.M.S.—C.P.I.), (*Kalamnuri*); K. N. Dhulap (S.M.S.—P.W.), (*Kalyan*); S. A. Pathan (Cong.), (*Kamptee*); K. S. Dhondge (S.M.S.—P.W.), (*Kandhar*); Sitaram S. Sawant (S.M.S.—P.W.), (*Kankavali*); Narayanrao G. Patil (Cong.), (*Kannad*); Y. B. Patil (Cong.),

(Karad North); Y. J. Mohite (Cong.), (Karad South); E. B. Nimbalkar (Cong.), (Karjat); Kisan G. Kamble (S.C.) (Cong.), (Karmala); Shripatrao S. Bondre (Cong.), (Karvir); Rajaram V. Sumda (S.T.) (Cong.), (Kasa); R. V. Telang (Cong.), (Kasba Peth); Jivanlal S. Channak (D.F.-Ind.), (Katol); T. D. Deshmukh (Cong.), (Kelapur); Sumant Rajaram Raut (S.M.S.-P.W.), (Khalpur); Govinddas R. Bhatia (Cong.), (Khamgaon); S. S. Mane (Cong.), (Khanapur); Ramchandra G. Patil (Cong.), (Khatav); S. M. Satkar (Cong.), (Khed-Alandi); Hussain M. Dalwai (Cong.), (Khed-Bunder); Manohar N. Gogate (Cong.), (Khetwadi); U. B. Rathod (Cong.), (Kinwat); T. S. Karkhanis (S.M.S.-P.W.), (Kolhapur); A. N. Phalke (Cong.), (Koregaon); B. M. Yagnik (Cong.), (Kumbharwada); Dr. T. R. Naravane (Cong.), (Kurla); Shashishekar Kashinath Athalye (S.S.), (Lanja); Vithal R. Kaldate (S.M.S.-S.S.), (Latur); Kisanrao Tukaram Sangle (Cong.), (Lonar); P. T. Patel (S.C.), (Cong.), (Lovegrove); Sampatrao M. Patil (S.M.S.-P.W.), (Madha); S. B. Sawant (Cong.), (Mahad); F. M. Pinto (Cong.), (Mahim); D. S. Patel (Cong.), (Malad); Ahmed Moulavi M. Usman Nihal (D.F.-P.S.), (Malegaon); Abarao S. Deshmukh (Cong.), (Malkapur); S. N. Mohite (Cong.), (Malshiras); V. G. Prabhugaonkar (Cong.), (Malwan); Dr. P. T. Sonwane (Cong.), (Man); Kisanlal R. Marda (Cong.), (Mangalwedha); Pandurang R. Sanap (S.M.S.-P.W.), (Mangaon); C. U. Raghuvanshi (Rep.), (Mangrulpur); S. N. Tribhuwan (S.C.) (Manglegaon); L. P. Shah (Cong.), (Matunga); Raghunath S. Satkar (Cong.), (Mawal); Dr. V. K. Toraskar (Cong.), (Mazgaon); Ramrao G. Zanak (Cong.), (Medshi); Sitaram Chinkaji Lodhe (Cong.), (Mehkar); Ramu Mhatang (Cong.), (Melghat); G. D. Patil (Cong.), (Miraj); Govind B. Burgute (Cong.), (Mohol); K. W. Wankhede (Cong.), (Morshi); Namdeo S. Mohol (Cong.), (Mulshi); P. U. Upadhyay (Cong.), (Mulund); S. G. Gholap (Cong.), (Murbad); Smt. Pratibha Bhagvant Tidke (Cong.), (Murtizapur); B. K. Deshmukh (S.T.), (S.M.S.-C.P.I.), (Nagar-Akola); Adamadil Usman Shaikh (Cong.), (Nagpada); Madangopal Jodhraj Agrawal (Cong.), (Nagpur-Central); Yadavrao R. Deogade (Cong.), (Nagpur-East); P. R. Wasnik (S.C.) (Cong.), (Nagpur North); Dr. (Smt.) Sushilabai Balraj (Cong.), (Nagpur-West); Ram Arjun Mahadik (D.F.-P.S.), (Naigaon); S. Farook Pasha S. Makdum Pasha (Cong.), (Nanded); Shivram D. Hire (S.M.S.-S.S.), (Nandgaon); R. P. Valvi (S.T.) (Cong.), (Nandurbar); Shantarambapur Kondaji Wavre (Cong.), (Nasik); D. J. Kokni (S.T.) (Cong.), (Navapur); Sivajirao B. Patil (Cong.), (Nilanga); Dattatraya B. Patil (Cong.), (Naphad); B. S. Chalukya (Cong.); (Omurga); U. S. Patil (S.M.S.-P.W.), (Osmanabad); Supdu B. Patil (Cong.), (Pachora); K. P. Patil (Cong.), (Paithan); Navnitrai B. Shah (D.F.-P.S.), (Palghar); A. K. Patil (Cong.), (Pandharpur); D. Y. Patil (Cong.), (Panhala); Dinkar B. Patil (S.M.S.-P.W.), (Panvel); Kondera H. Patil (Cong.), (Paranda); Annasaheb R. Gavhane (S.M.S.-P.W.), (Parbhani); Krishnaji G. Desai (S.M.S.-C.P.I.), (Parel); N. R. Gunjal (Cong.), (Parner); G. N. Pawar (Cong.), (Parola); Ramrao N. Yadav (Cong.), (Partur); Daulatrao S. Desai (Cong.), (Patan); T. S. Bharde (Cong.),

(Pathardi); Sakharam G. Nakhate (Cong.), (Pathri); Anant P. Shetye (S.M.S.-P.W.), (Pen); K. R. Bhoite (Cong.), (Phaltan); K. T. Girmé (Cong.), (Poona Cantt.); Narayanrao R. Kale (S.M.S.-P.W.) (Pulgaon); D. R. Khaire (Cong.), (Purandhar); V. P. Naik (Cong.), (Pusad); Gobind T. Kalikate (S.M.S.-P.W.) (Radhanagari); B. B. Tanapure (Cong.), (Rakuri); Laxman R. Hatankar (D.F.-P.S.), (Rajapur); Shrihari B. Jivtode (D.F.-Ind.), (Rajura); M. N. Bhalawi (S.T.) (D.F.-F.B.), (Ralegaon); Gunderao F. Mahajan (Cong.), (Ramtek); S. L. Peje (Cong.); (Ratnagiri); M. D. Choudhari (Cong.), (Raver); A. G. Gite (Cong.), (Renapur); Shamrao Pagaji Kapagate (J.S.) (Sakoli); Uttamrao Ratan Patil (S.M.S.-C.P.I.), (Sakri); Smt. Laxmibai B. Bhuvad (Cong.), (Sangameshwar); B. J. Khatal (Cong.), (Sangamner); Appasaheb B. Birnale (Cong.), (Sangli); G. A. Deshmukh (S.M.S.-P.W.), (Sangola); S. R. Patkar (Cong.), (Santacruz); W. V. Gaddamvar (Cong.), (Saoli); N. M. Tidke (Cong.), (Saoner); D. S. Jagtap (Cong.), (Satara); S. K. Bhonsale (Cong.), (Savantwadi); S. G. Patkar (S.M.S.-C.P.I.) (Sewree); S. B. Pawar (S.T.) (Cong.), (Shahada); P. R. Patil (S.T.) (S.M.S.-P.W.), (Shahapur); Rau Dhondi Patil (S.M.S.-P.W.), (Shahuwadi); Tulsiram P. Dhokne (Cong.), (Shegaon); M. S. Ghule (Cong.), (Shevgaon); Narayanrao S. Patil (Cong.), (Shindkheda); V. A. Naik (Cong.), (Shirala); Mohanrao A. Gade (D.F.-Ind.), (Shirdi); R. B. Kumbhar (Cong.), (Shirol); Shivajirao G. Patil (Cong.), (Shirpur); Balwant D. Killedar (S.M.S.-P.W.), (Shivajinagar); Ramkrishna V. Bet (Cong.), (Sholapur City-North); V. R. Patil (S.M.S.-H.S.), (Sholapur City South); B. K. Mane (S.M.S.-Ind.), (Sholapur North); V. G. Shivdare (Cong.), (Sholapur South); B. M. Bharaskar (S.C.) (Cong.), (Shrigonda); Jagannathrao Wamanrao Banker (Cong.); (Shrirampur); A. R. Gafoor Antuley (Cong.), (Shrivardhan); Gangaram S. Mankar (Cong.), (Sillod); Smt. Rukhminibai V. Waje (Cong.), (Sinnar); Mukund Vithoba Aloni (Cong.), (Sironcha); Shyamkant D. More (D.F.-P.S.), (Sirur); Ramchandra K. Mhalgi (J.S.), (Sukhravar (Peth); Siraram Sayaji Bhoya (S.T.) (Cong.), (Surguna); Smt. Vahirabai D. Padvi (S.T.) (Cong.), (Taloda); Balasaheb G. Patil (Cong.), (Tasgaon); D. K. Rajarshi (Cong.), (Thana); Bhaiyalal L. Patle (Cong.), (Tirora); S. S. Patil (Cong.), (Tuljapur); K. A. Pardhi (Cong.), (Tumsar); Pralhadrao S. Sarvade (S.C.) (Cong.), (Udgir); Sanmukh C. Israni (Cong.), (Ulhasnagar); S. A. Mane (Cong.), (Umarkhed); G. Haji N. Banatwalla (S.M.S.-M.L.), (Umerkhadi); Suresh B. Deotale (Cong.), (Umrer); Keshav N. Ghatge (S.C.), (Cong.), (Vadgaon); G. D. Patil (Cong.), (Vaijapur); Pundalik A. Kinlekar (D.F.-P.S.), (Vengurla); Pranlal Harikisandas Vora (Cong.), (Vile Parle); Prataprao B. Bhonsle (Cong.), (Wai); U. B. Mahalle (Cong.), (Walgaon); Homi Jehangir Taleyarkhan (Cong.), (Walkeshwar); R. A. Patil (Cong.), (Walwa); Dr. V. Y. Gohokar (Cong.), (Wani); Ramachandra Marotrao Ghangare (S.M.S.-C.P.I. M.) (Wardha); Smt. Manabai M. Khirade (S.C.) (Cong.), (Washim); Dr. Madhav N. Birje (Cong.), (Worli); Jiwarao T. Mahajan (Cong.), (Yawal); Madhavrao T. Patil (Cong.), (Yeola); Jambhuwantrao B. Dhote (D.F.-F.B.), (Yestmal); D. L. Amore (Nominated).

MAHARASHTRA LEGISLATIVE COUNCIL

Strength : 78.

Chairman : V. S. Page ; Dy. Chairman : R. S. Gavai ; Secretary : S. H. Belavadi ; Dy. Secretary : S. R. Kharabe.

Party position ; Congress 51 ; Rashtriya Lokshahi Aghadi 10 ; Jan Sangh 5 ; Sampurna Maharashtra Samiti 3 ; Praja Socialist 3 ; Republican 3 ; Bharatiya Kranti Dal 1 ; Independent 5.

Local Authorities' Constituency (22): Pandurang Yeshwant Phalke (Cong.), (Ahmednagar); Vinayakumar Ramlal Parashar (Cong.), (Akola and Buldana); Ramdayal Ayodhya Prasad (Ind.), (Amravati); Baburao Govindrao Jadhav (Cong.), (Aurangabad); Chhedilal Budhanlal Gupta (Cong.), (Bhandara); Wasadeo Narayan Bharguwar (Ind.), (Chanda and Rajura); Prabhakar Damodar (Dalal (Cong.), (Dhulia); Waman P. Bapat (S.M.S.), (Gr. Bombay);

Moinuddin Harris (Ind.), (*Gr. Bombay*); Dhanaji Ravaji Patil (Cong.), (*Jalgaon*); Madhukar Laxman Dandekar (Ind.), (*Kolaba*); Sadashivrao A. Shinde (Cong.), (*Kolhapur*); Rikhabchand K. Sharma (Cong.), (*Nagpur*); Lakshmichand R. Abad (Cong.), (*Nasik*); Ramrao D. Avargaokar (Cong.), (*Osmanabad and Bhir*); Abasaheb D. Deshmukh (Cong.), (*Parbhani and Nanded*); Harischandra S. Barmukh (Cong.), (*Poona*); Tukaram K. Shetye (Cong.), (*Ratnagiri*); Dhulappa B. Navale (Cong.), (*Sangli and Satara*); Manikrao P. Mangudkar (Cong.), (*Sholapur*); Zumberlall M. Kalantri (Cong.), (*Thana*); Deorao Anand-rao Chaudhary (Cong.), (*Wardha and Yeotmal*).

Elected by the Legislative Assembly (30): Ishavar N. Bhosikar (Cong.); Govindrao Bapurao Patil (Cong.); Govindrao Punjaji Buchake (Cong.); John M. Coelho (Cong.); Sardar Pratap Singh (Cong.); Luxmanrao Shankarrao Deshmukh (Cong.); Ramkrishna S. Gavai (Rep.); Haribhau Purbhai Gole (Cong.); Vithalrao Ganpatrao Hande (P. & W.); Appasaheb Ramchandra Jadhav (Cong.); Jethamal Kisanlal (Cong.); Jagannath N. Korpe (Cong.); Anandiram Modiram Kumath (Cong.); Madhav P. Limaye (P.S.); Ram Krishna Meghe (Cong.); Panditrao B. More (Cong.); Vithal S. Page (Cong.); Bajirao Nana Patil (Cong.); Madhav Gotu Patil (Cong.); Pandharinath V. Patil (Cong.); Vishvanath C. Pawar (B.K.D.); Ramkrishna Paikuiji Samarth (Cong.); Bhaurao V. Shende (Cong.); Bhausaheb Laxmanrao Shirole (Cong.); Smt. Ashatai M. Tale (Cong.); Dattatraya Balkrishna Tamhane (P.S.); Maheshwar Vishnu Thakur (Cong.); Sambhajirao M. Thorat (Cong.); Prabhakar Balwant Vaidya (S.M.S.); Kisan Mahadeo Veer (Cong.).

Teachers' Constituency (7): Jagannath Ganesh Bhawe (Ind.), (*Gr. Bombay*); Kamalakar W. Desai (Ind.), (*Gr. Bombay*); Mukund T. Kulkarni (Ind.), (*Gr. Bombay*); Shankar L. Ogle (Ind.), (*Gr. Bombay*); Mahadeo N. Anjekar (Ind.), (*Vidarbha*); Haribhau Sakhararnji Harwar (Ind.), (*Vidarbha*); Nagarao Balkrishna Sapate (Ind.), (*Vidarbha*).

Graduates' Constituency (7): Dr. Vasantkumar R. Pandit (J.S.), (*Gr. Bombay*); Anant S. Sthalekar (Cong.), (*Gr. Bombay*); Uttamrao Laxman Patil (J.S.), (*Maharashtra*);

Ganesh P. Pradhan (P.S.), (*Maharashtra*); Bachharaj Shyamal Byas (J.S.), (*Vidarbha*); Ramjiwan F. Choudhury (J.S.), (*Vidarbha*); V. G. Deshpande (J.S.), (*Vidarbha*).

Nominated (12): Smt. Sevigne G. P. Athaide (Ind.); Chandrashekhar N. Bajpai (Cong.); Charudatta Chaturbhair Shah (Cong.); Smt. Maniben Nanubhai Desai (Cong.); Kumari Shantabai Dhanaji Dani (Rep.); Narayan W. Karwade (Cong.); Kazi Salimuddin (Cong.); Narhar W. Limaye (Cong.); G. D. Madgulkar (Cong.); Ratanlal Mohanlal (Cong.); Tushar Pandurang Pawar (Cong.); Damodar Tatyaba Rupawate (Rep.).

MANIPUR LEGISLATIVE ASSEMBLY

An estimate of party strength : Congress 23, Samyukta Socialist Party 4; Communist Party 1; Independents 5.

Speaker : Sibho Larho. *Constituencies* : 33.

L. Ibomcha Singh (Cong.), (*Bishenpur*); Lalroukung (Cong.),* (*Churachandpur*); Th. Anoubi Singh (S.S.P.), (*Hiyanglam Sugnoo*); S. Bijoy Singh (Cong.), (*Jiribam*); Y. Nimai Singh (S.S.P.), (*Kakching*); L. Thambou Singh (Cong.), (*Keisamthong*); Md. Chaoba (Cong.), (*Khangabok*); K. Borthakur Sarma (S.S.P.), (*Khurai*); S. Tombi Singh (Ind.), (*Konthoujam*); Md. Alimuddin (Cong.), (*Lilong*); Ch. Rajmohan Singh (Cong.), (*Mayang Imphal*); Shonkhotang Ashon (S.T.) (Cong.), (*Mao East*); Siba Larho (S.T.) (Cong.), (*Mao West*); Y. Yaima Singh (Ind.), (*Nambol*); K. Envy Mashangva (S.T.) (Cong.), (*Phungyar Phaisat*); S. Gambir Singh (Cong.), (*Sagolband*); M. Ibohah Singh (C.P.I.), (*Sagolmang*); Kh. Chaoba (Ind.), (*Sekmai Lamsang*); A. Birmagol Singh (Ind.), (*Singjamei*); Demjalam Kipgen (S.T.) (Cong.), (*Tamei*); K. Kakhangai (S.T.) (Cong.), (*Tamenglong*); Paokhohang (S.T.) (Cong.), (*Tengnoupal*); M. Koieng Singh (Cong.), (*Thanga*); Goukhenpau (S.T.) (Cong.), (*Thanlon*); S. Angou Singh (Cong.), (*Thongju*); W. Mani Singh (Cong.), (*Thoubal*); Md. Ashraf Ali (Cong.), (*Top Chingtha*); L. Solomon (S.T.) (Cong.), (*Ukhrul*); N. Tombi Singh (Cong.), (*Uripok Thangmeiband*); L. Achaw Singh (S.S.P.), (*Wangkhei*); Smt. R. T. Shining (Ind.), (*Nominee*); Smt. A. Bimola Devi (Cong.), (*Nominee*); Smt. Lhingjaneng (Cong.), (*Nominee*).

MYSORE LEGISLATIVE ASSEMBLY

No. of Seats 217; S.C. : 29; S.T. : 2.

An estimate of party position is given below : Congress 131; Ind. 25; P.S.P. 23; Swatantra 14; Janata Paksha 10; S.S.P. 5; Jana Sangh 4; C.P.I. 2; L.S.S. 1; R.P.I. 1; Vacant (Nominee Seat) 1; Total 217.

Speaker : B. Vaikunta Baliga. *Dy. Speaker* : D. Manjunath.

N. S. Patil (Cong.), (*Afzalpur*); Digambara Rao B. Kalmankar (P.S.P.), (*Aland*); R. Muniswamaiah (S.C.) (Cong.), (*Anekal*); D. S. Nadkarni (P.S.P.), (*Ankola*); A. R. Panchagavi (Cong.), (*Arbhavi*); H. N. Nanje Gowda (Swa.), (*Arkalagud*); G. Channabasappa (Cong.), (*Arsikere*); D. B. Pawar (Cong.), (*Athani*); Manikrao Patil (Cong.), (*Aurad*); K. M. Pattanshetti (Ind.), (*Badami*); B. T. Murnal (Cong.), (*Bagalkot*); A. Muniyappa (S.C.) (Cong.), (*Bagepalli*); C. L. Pattan Shetti (Cong.), (*Bagewadi*); B. S. Patil (Cong.), (*Bagewadi*); B. A. Bolashetti (Cong.), (*Bailhongal*); Subba Rao Halsnad (P.S.P.), (*Baindur*); S. S. Arakeri (S.C.) (R.P.I.), (*Ballolli*); T. P. Boriah (Ind.), (*Bannur*); Smt. K. Leelavati Rai (Cong.), (*Bantwal*); P. Thimmaiah (Janatha Paksha), (*Basavangudi*); Sidramappa Khoba (Cong.), (*Basavakalyan*); B. B. Sayanak (Ind.), (*Belgaum*); V. Nagappa (Swa.), (*Bellary*); S. H. Puttaranganath (S.C.) (Swa.), (*Belur*); K. Chidananda (Cong.), (*Bel-*

thangady); E. Narayana Gowda (Cong.), (*Bethamangala*); Abdul Khuddus Anwar (P.S.P.), (*Bhadravati*); S. Bhimanna (Cong.), (*Bhalki*); G. Duggappa (S.C.) (Janata Paksha), (*Bharamasagara*); M. A. Amalorpavam (Cong.), (*Bharathynagar*); M. M. Jalisatgi (P.S.P.), (*Bhatkal*); G. Chandrakanth (J.S.), (*Bidar*); B. M. Patil (Cong.), (*Bijapur*); R. M. Desai (Cong.), (*Bilgi*); D. M. Siddaiah (Cong.), (*Biligere*); M. Mallappa (Janata Paksha), (*Birur*); S. Jayaprakash Shetty (Swa.), (*Brahmavar*); Mahadev Gadigeppa Banakar (P.S.P.), (*Byadagi*); B. L. Gowda (Cong.), (*Challakere*); S. Puttaswamy (Janatha Paksha), (*Chamarajanagar*); R. Dayananda Sagar (Cong.), (*Chamarajpet*); K. Puttaswamy (Cong.), (*Chamundeswari*); N. G. Halappa (S.S.P.), (*Channagiri*); T. V. Krishnappa (P.S.P.), (*Channapatna*); C. M. S. Sastry (P.S.P.), (*Chickmagalur*); C. K. Rajaiah Shetty (P.S.P.), (*Chicknayakanahalli*); Vital Nagaraj (Ind.), (*Chickpet*); K. M. Puttaswamy (Cong.), (*Chikaballapur*); B. S. Soudagar (S.C.) (Cong.), (*Chikodi*); Veerendra Patil (Cong.), (*Chincholi*); T. K. Gangi Reddy (C.P.I.-M.), (*Chintamani*); S. Rudrappa (Cong.), (*Chitapur*); H. C. Boraiah (Cong.), (*Chitradurga*); Smt. Winnifred F. Fernandes (P.S.P.), (*Coondapur*); Kondajji Basappa (Cong.), (*Davanagere*); Sadasivappa Patil (Ind.), (*Deodurg*); D. S. Gowdh (Cong.), (*Devanahally*); K. M. Dasankop (Cong.), (*Dharwar*); S. V. Agnihotri (Cong.), (*Dharwar Rural*),

* Election declared void by the Judicial Commissioner of Manipur under Section 100 (1) of the Representation of People Act, 1195.

G. Rame Gowda (Ind.), (*Doddaballapura*); T. R. Shamma (Janata Paksha), (*Fort*); K. H. Patil (Janata Paksha), (*Gadag*); Smt. Nagarathamma Hiremath (Cong.), (*Gandhinagar*); B. Nanjappa (Cong.), (*Gandasi*); Thirumala Deva Raya (Cong.), (*Gangavathi*); L. S. Naik (S.T.) (Cong.), (*Gokak*); R. N. Lakshminpathy (Ind.), (*Gowribidanur*); Chikke Gowda Patil (Cong.), (*Gubbi*); Mohamed Ali (Cong.), (*Gulbarga*); M. R. Pattanshetty (Cong.), (*Guledgud*); Ganga Bovi (S.C.) (P.S.P.), (*Gulur*); Smt. K. S. Nagarathanamma (Cong.), (*Gundlupet*); Narasappa Yenappa (S.C.) (Cong.), (*Gurumitkal*); N. M. Kotrabasaiah Sogi (Cong.), (*Hadagalli*); Ramakrishna Hegde (Cong.), (*Haliyal*); G. N. Desai (Cong.), (*Hangal*); B. H. Yenka Nayak (S.C.) (Cong.), (*Harapanahalli*); H. Siddaveerappa (Janata Paksha), (*Harihar*); H. B. Jawalanaiah (Swa.), (*Hassan*); B. V. Magavi (Cong.), (*Haveri*); R. Peeranna (S.C.) (Cong.), (*Heggadadevanakote*); G. B. Shankar Rao (Cong.), (*Hirekerur*); D. Manjunath (S.C.) (Cong.), (*Hiriyur*); B. Parameshwarappa (Janata Paksha), (*Holalkere*); H. D. Devegowda (Ind.), (*Holenarasipur*); D. Parameswarappa (Cong.), (*Honnali*); H. Nagappa (Cong.), (*Honur*); M. Ramappa (Cong.), (*Hosadurga*); I. Somashekarappa (Cong.), (*Hosanagar*); N. Chicke Gowda (Cong.), (*Hoskote*); R. Nagan Goud (Cong.), (*Hospet*); R. G. Wali (Cong.), (*Hubli*); M. R. Patil (Cong.), (*Hubli Rural*); Patil Satyagowda, Satagowda (Cong.), (*Hukkeri*); N. Hutchmasty Gowda (Ind.), (*Huliyurdurga*); Prabhura Dondiba Jagadale (S.C.) (Cong.), (*Hulsoor*); V. N. Patil (C.P.I.), (*Humnabad*); S. R. Kanthi (Cong.), (*Hungund*); D. Devaraja Urs. (Cong.), (*Hunsur*); G. N. Patil (Cong.), (*Huvinahippargi*); M. K. Surpur (Swa.), (*Indi*); J. R. Halaswamy (Cong.), (*Jagalur*); B. D. Jatti (Cong.), (*Jamkhandi*); Sharanagouda Inamdar (Swa.), (*Jewargi*); K. M. Thammiah (Ind.), (*Kadur*); Smt. Champabai Bogle (S.C.) (Cong.), (*Kagwad*); F. S. Patil (Ind.), (*Kalghatgi*); M. Kalyan Rao (Cong.), (*Kalgi*); B. Ganganna (Cong.), (*Kallambella*); Smt. Nagamma (S.C.) (Cong.), (*Kalmala*); Smt. Lalithabai Chandrasekhar (Cong.), (*Kamalapur*); K. G. Thimme Gowda (Cong.), (*Kanakapura*); Bola Raghurama Shetty (J.S.), (*Karkal*); B. P. Kadam (Ind.), (*Karwar*); B. Bhaskara Shetty (P.S.P.), (*Kaup*); N. B. Sardesai (Ind.), (*Khannapur*); G. Made Gowda (S.C.) (Cong.), (*Kirugavali*); B. M. Sanikop (Cong.), (*Kittur*); P. Venkatagiriappa (Ind.), (*Kolar*); S. R. Shanmugam (S.C.) (Cong.), (*Kolar Gold Field*); B. Basavaiah (S.C.) (Cong.), (*Kollegal*); Virupakshagouda B. Malipattil (Cong.), (*Koppal*); T. S. Sivanna (Cong.), (*Koratagere*); S. Channiah (Janata Paksha), (*Krishnaraja*); M. Basavaraju (Cong.), (*Krishnarajanagar*); M. K. Bomme Gowda (Janata Paksha), (*Krishnarajpet*); M. M. J. Sadyojatha (Cong.), (*Kudligi*); Solur Siddappa (Cong.), (*Kudur*); R. M. Hegde (P.S.P.), (*Kumta*); S. R. Bommai (L.S.S.), (*Kundgol*); G. Thammanna (Cong.), (*Kunigal*); Allum Karibasappa (Cong.), (*Kurugodu*); E. Pundaleekappa (Cong.), (*Kushtagi*); K. Sanganagowda (Cong.), (*Lingsugar*); M. Manche Gowda (Cong.), (*Maddur*); G. T. Govinda Reddy (Cong.), (*Madhugiri*); C. R. Range Gowda (P.S.P.), (*Magadi*); M. Mallikarjuna Swamy (S.C.) (Cong.), (*Malavalli*); M. S.

Krishnan (C.P.I.), (*Malleswaram*); H. C. Linga Reddy (Cong.), (*Malur*); Nagappa (Cong.), (*Mandya*); M. Srinivas Nayak (Cong.), (*Mangalore—I*); B. M. Idinabba (Cong.), (*Mangalore—II*); Smt. Basavarajeswari (Cong.), (*Manvi*); A. P. Appanna (Cong.), (*Mercara*); S. H. Basanna (Cong.), (*Molakalmuru*); Ratnakumar Kattemar (Swa.), (*Mudabidri*); S. M. Guraddi (Cong.), (*Muddebihal*); K. P. Nadagouda (Swa.), (*Mudhol*); K. H. Ranganath (S.C.) (P.S.P.), (*Mudigere*); T. Channaiah (S.C.) (Cong.), (*Mulbagal*); Dr. C. M. Churchihalmath (Cong.), (*Mundargi*); K. Singari Gowda (Cong.), (*Nagamangala*); L. Srikantiah (Ind.), (*Nanjund*); Azeez Sait (S.S.P.), (*Narasimharaja*); R. V. Doddamani (S.C.) (Cong.), (*Nargund*); R. M. Patil (Cong.), (*Navalgund*); Alur Hanumanthappa (Cong.), (*Nelamangala*); G. K. Manvi (Ind.), (*Nipani*); N. A. Channe Gowda (Ind.), (*Pandavapura*); H. V. Koujalgi (Cong.), (*Parasagad*); P. Anjinappa (S.C.) (Cong.), (*Pavagada*); H. M. Channabasappa (Ind.), (*Periyapatna*); B. Vithaldas Shetty (Cong.), (*Puttur*); V. L. Patil (Cong.), (*Raibagh*); M. Nagappa (S.S.P.), (*Raichur*); B. R. Dhananjeya (Ind.), (*Ramanagaram*); Smt. Saradavya M. Pattan (Cong.), (*Ramdurg*); N. L. Bellad (P.S.P.), (*Ranibennur*); A. J. Doddameti (Cong.), (*Ron*); Patil Shidagouda Shivagouda (Cong.), (*Sadalaga*); K. H. Srinivasa (Cong.), (*Sagar*); K. P. Chikke Gowda (Swa.), (*Sakalespur*); M. Y. Ghorpade (Cong.), (*Sandur*); S. D. Kothavale (Cong.), (*Sanakeswar*); B. Rachaiiah (S.C.) (Cong.), (*Santhamaranahalli*); H. Puttadasa (S.C.) (Ind.), (*Sathnur*); J. P. Sarwesh (S.C.) (Ind.), (*Serun*); Bapugouda (Cong.), (*Shahapur*); A. Nanjappa (Cong.), (*Shanthinagar*); S. Nijalingappa (Cong.), (*Shiggaon*); G. Basavannappa (S.C.), (S.S.P.), (*Shikaripura*); A. R. Badrinarayan (Cong.), (*Shimoga*); Siddiah Kashimath (Swa.), (*Shirhatti*); Raja Pid Naik (Cong.), (*Shorapur*); S. Sivappa (P.S.P.), (*Shravanabelagola*); C. M. Desai (Cong.), (*Sindgi*); G. Amaregowda (L.S.S.), (*Sindhnoor*); B. Venkatarayappa (Cong.), (*Siddlaghatta*); B. N. Rame Gowda (Cong.), (*Sira*); M. H. Jayaprakash Narayan (S.C.) (P.S.P.), (*Sirsi*); M. Daddanagoud (Cong.), (*Siruguppa*); H. R. Abdul Gaffar (Cong.), (*Shivajinagar*); G. M. Manjanathaiiah (Swa.), (*Somvarpet*); S. Bangarappa (S.S.P.), (*Sorab*); K. N. Veerappa Gowda (Cong.), (*Sringeri*); B. L. Narayana Swamy (Ind.), (*Srinivasapur*); B. Doddabore Gowda (Ind.), (*Srirangapatna*); A. Ramachandra (S.C.) (Swa.), (*Sullya*); P. V. Aithala (P.S.P.), (*Surathkal*); M. Rajasekhara Murthy (Cong.), (*Narasipur T.*); Hanji Shivanna (P.S.P.), (*Tarikere*); S. Gopala Gowda (S.S.P.), (*Thirthahalli*); S. B. Vastrad (Cong.), (*Tikota*); V. L. Shivappa (P.S.P.), (*Tiptur*); B. P. Gangadhar (P.S.P.), (*Thumkur*); M. N. Ramanna (Cong.), (*Turuvekere*); P. B. Nandihali (Ind.), (*Uchagaon*); S. K. Amin (Cong.), (*Udipi*); Y. Ramakrishnan (S.C.) (Cong.), (*Uttarahalli*); K. Prabhakar (S.C.) (Cong.), (*Varthur*); G. Narayana Gowda (Cong.), (*Vemagal*); N. Lokayya Naik (S.T.) (J.S.), (*Virajapat*); K. R. Nada Gonda (Cong.), (*Yadgir*); B. Narayanaswamappa (Ind.), (*Yelahanka*); Chanabasangouda Hanamanthagouda (Cong.), (*Yelburga*); Anglo-Indian Nominee: Vacant.

MYSORE LEGISLATIVE COUNCIL

Chairman : K. K. Shetty ; Dy. Chairman : M. Madiha ;
Leader of the House : K. V. Shankara Gowda ; Secretary :
Te. Hanumanthappa.

Party position : Congress 47 ; P.S.P. 3 ; Independent 8 ; Jan Sangh 3 ; S.S.P. 1 ; Swa. 1 ; Total 63.

Elected by the Legislative Assembly (21) : K. Kannan (Cong.) ; K. S. Channappa (Cong.) ; C. S. Balakrishna Gowda (Ind.) ; S. C. Kubasad (Cong.) ; D. Munichinnappa

(Ind.) ; M. Madiha (Cong.) ; R. G. Dubey (Cong.) ; Y. R. Parameshwappa (S.S.P.) ; S. S. Narayana Murthy (Cong.) ; R. B. Naik (Cong.) ; Smt. Leelamma Shivananjappa (Cong.) ; G. Venkatai Gowda (Ind.) ; D. Rajagopal (Ind.) ; B. Rangappa (Cong.) ; M. V. Rama Rao (Cong.) ; T. M. K. Peer Sab (Cong.) ; Javaraj Hirachand Shah (Cong.) ; K. Kanthappa Shetty (Cong.) ; M. T. Sreekantiah (Ind.) ; A. H. Sivananda Swamy (P.S.P.) ; V. Venkatappa (Cong.).

Local Authorities' Constituency (21): M. Krishnappa (Cong.), (*Bangalore*); Channabyre Gowda (Swa.), (*Bangalore*); B. S. Aragavi (Cong.), (*Belgaum*); G. B. Patil (Cong.), (*Belgaum*); K. Channabasavanna Gauda (Cong.), (*Bellary*); M. M. Kheny (Ind.), (*Bidar*); P. M. Nadgouda (Cong.), (*Bijapur*); Channayya Odeyar (P.S.P.), (*Chitradurga*); G. V. Hallikeri (Cong.), (*Dharwar*); V. S. Hiregoudar (Cong.), (*Dharwar*); A. V. Patil (Ind.), (*Gulbarga*); K. Lakkappa (Cong.), (*Hassan*); M. C. Anjaneya Reddy (Cong.), (*Kolar*); K. V. Shankara Gowda (Cong.), (*Mandya*); H. K. Shivarudrappa (Cong.), (*Mysore-cum-Coorg*); M. Linganna (Cong.), (*Mysore-cum-Coorg*); S. D. Gaonkar (Cong.), (*North Kanara*); Viswanatha Swamy (Cong.), (*Raichur*); K. T. Shamaiah Gowda (Cong.), (*Shimoga-cum-Chikmagalur*); K. Suryanarayana Adiga (Cong.), (*South Kanara*); A. S. Nandeesh (Cong.), (*Tumkur*).

Graduates Constituency (6): G. V. Anjanappa (P.S.P.), (*Bangalore*); Smt. M. R. Lakshamma (Cong.), (*Bangalore*); Y. S. Patil (J.S.), (*Mysore Central*); S. C. Edke (Cong.), (*Mysore North*); M. V. Venkatappa (Cong.), (*Mysore South-East*); A. K. Subbiah (J.S.), (*Mysore South-West*).

Teachers' Constituency (6): M. B. Kulkarni (Cong.), (*Mysore North Central*); K. R. Nitturkar (Cong.), (*Mysore North East*); M. G. Handral (Ind.), (*Mysore North West*); S. Mukunda Rao (Cong.), (*Mysore South Central*); S. P. Rajanna (Cong.), (*Mysore South East*); C. Bandi Gowda (Cong.), (*Mysore South West*).

Nominated (9): K. Doomappa (Cong.); Akbar Sait A. Kayum (Cong.); Smt. Abbasia Begum Mecci (Cong.); A. B. Patil (Cong.); M. L. Vasudeva Murthy (Cong.); Dharmaprakasha L. S. V. Rao (Cong.); Tej Singh Rathod (Cong.); Basavaraj Kattimani (Cong.); K. Subba Rao (Cong.).

NAGALAND LEGISLATIVE ASSEMBLY

Seats : 52 ; Elected : 40 ; Nominated 12.

Speaker : K. Shikhu Sema ; *Dy. Speaker* : K. V. Kreditsu ; *Secretary* : H. G. Paranjpe.

Aghunato (*Aghunato*); Hokishe Sema (*Akuluto*); Zulutemba (*Alongtaki*); Shurhozelie (*Angami-North I*); K. Vitsore Kreditsu (*Angami-North II*); Vitsoni (*Angami-South I*); Hosal Kin (*Angami-South II*); Thepfulo Nakhro (*Angami-West*); R. C. Chiten Jamir (*Arkakong*); Kiyekhu Shikhu (*Atoizu*); Bendangangshi (*Aunglenden*); Tsenlamo Kikon (*Bhandari*); Vamuzo (*Chazouba I*); Punubu (*Chazouba II*); P. Monokiu Yimchunger (*Chessore, Tuensang*); Wetzulo (*Chizami*); M. Tsubongse Sangtam (*Chungtore-Tuensang*); Debalal Mech (*Dimapur*); Gobinda Ch. Paira (*Dimapur Town*); Langkam Kuki (*Ghaspani*); M. Koramoa Jamir (*Impur*); I. Arienba (*Jangpetkong*); John Bosco Jasokie (*Kohima Town*); Tajen Ao (*Koridang*);

Longnyiem Konyak (*Langmeng, Tuensang*); I. L. Chingmak Chang (*Litem-Tuensang*); Marhuto (*Meluri*); Nsemo Ovung (*Moilan-Wozhuro*); Assamwati (*Mokokchung Town*); Tingmei Konyak (*Mon-Tuensang*); Takomeren (*Mongoya*); N. Zhetovi Sema (*Nitoyi-Tuensang*); T. Haralu (*Peren*); Weprenyi Kapfo (*Pfutsero*); Yevehe Lohe (*Phek*); Hosheto Sema (*Pughoboto*); Mhondamo Kithan (*Sanis*); Yeshito (*Satakha*); Kichungse Sangtum (*Seyochum-Tuensang*); Chingwang Talen Konyak (*Shiyong-Tuensang*); Kamtichung Akum Imloong (*Sibongsang-Tuensang*); Nihovi Sema (*Suruhoto*); Tochi Hano Chang (*Taknyji-Tuensang*); Thanglong Komyak (*Tamlu-Tuensang*); Riga Thong (*Tseminyu*); N. Azu Newmai (*Tening*); I. Merachiba (*Tuli*); T. A. Nusellie (*Tyui-Longchum*); N. L. Odyuo (*Wokha*); Oitemba Phom (*Yachem-Tuensang*); Sentichuba (*Yisemyong*); Tokheho Sema (*Zunheboto*).

ORISSA LEGISLATIVE ASSEMBLY

Number of Constituencies : 140 ; Number of Seats : 140 ; Reserved for Scheduled Castes : 22 ; Scheduled Tribes : 34 ; *Speaker* : Nanda Kishore Misra ; *Deputy Speaker* : Harihar Bahinipati.

Party Position : Congress 31 ; Swatantra 49 ; Jana Congress 25 ; Praja Socialist Party 21 ; Communist 7 ; S.S.P. 1 ; Independent 5 ; Communist (Marx.) 1.

Total number of electorates : 98,73,057 ; Bhubanananda Jena (S.C.) (Jana Cong.), (*Anandapur*) ; Kumud Chandra Singh (J.C.), (*Angul*) ; Harihar Das (C.P.I.), (*Aska*) ; Surendra Pradhan (Ind.), (*Athamallik*) ; Radhanath Rath (Ind.), (*Athgarh*) ; Dibakar Nath Sarma (Cong.), (*Aul*) ; Sunaram Soren (S.T.) (J.C.), (*Bahalda*) ; Prasannakumar Das (P.S.P.), (*Baisinga*) ; Rabindra Mohan Das (P.S.P.), (*Balasore*) ; Baikunthanath Mohanty (P.S.P.), (*Balikuda*) ; Harihar Bhoi (S.C.) (J.C.), (*Balipatna*) ; Naresh Pradhan (S.T.), (Swa.), (*Balliguda*) ; Jogesh Chandra Rout (Ind.), (*Banki*) ; Radhamohan Nayak (S.T.), (Swa.), (*Bangripasi*) ; Raghunath Misra (Cong.), (*Banpur*) ; Bharat Chandra Hota (Cong.), (*Baragarh*) ; Pratap Chandra Patnaik (J.C.), (*Baramba*) ; Jagannath Das (P.S.P.), (*Barchana*) ; Santosh Kumar Sahu (Cong.), (*Baripada*) ; Chintamani Jena (Cong.), (*Basta*) ; Harekrushna Mahtab (J.C.), (*Basudebpur*) ; Gangadhar Paikray (C.P.I.), (*Begunia*) ; Binayak Acharya (Cong.), (*Berhampur*) ; Nityananda Mahapatra (J.C.) (*Bhadrak*) ; Deenabandhu Behera (Cong.), (*Bhanjanagar*) ; Smt. Saraswati Pradhan (Cong.), (*Bhatli*) ; Dayanidhi Naik (S.C.) (Swa.), (*Bhawaniapatna*) ; Pyari

Mohan Das (P.S.P.), (*Bhograi*) ; Smt. Subhadra Mahtab (Jan. Cong.), (*Bhubaneswar*) ; Mohan Nag (S.C.) (Cong.), (*Bijepur*) ; Baishnab Charan Mallick (S.C.), (P.S.P.), (*Binjharpur*) ; Narasingha Charan Misra (Swa.), (*Binka*) ; Krushna Chandra Naik (S.T.), (Swa.), (*Bisra*) ; Biswanath Choudhury (S.T.), (Swa.), (*Bissam-Cuttack*) ; R. N. Singh Deo (Swa.), (*Bolangir*) ; Hemendra Prasad Mahapatra (S.T.), (Swa.), (*Bonai*) ; Himansu Sekhar Padhi (J.C.), (*Boudh*) ; Brajamohan Mohanty (Cong.) (*Brahmagiri*) ; Prasannakumar Panda (C.P.I.), (*Brajarajnagar*) ; Kshetra Mohan Naik (S.T.), (Swa.), (*Champua*) ; Manmohan Das (S.C.), (J.C.), (*Chandbali*) ; Lakshman Mahapatra (C.P.I.), (*Chatrapur*) ; Nabaghana Nayak (S.C.) (J.C.), (*Chhondipada*) ; Dibakar Patnaik (Cong.), (*Chikiti*) ; Akulananda Behera (P.S.P.), (*Choudwar*) ; Biren Mitra (Cong.), (*Cuttack City*) ; Sukadev Jena (S.C.) (J.C.), (*Cuttack Sadar*) ; Dambaru Majhi (S.T.) (Swa.) (*Dabugam*) ; Bhabagrahi Nayak (S.C.) (Swa.), (*Daspalla*) ; Bhanuganga Tribhuban Deb (Swa.), (*Deogarh*) ; Smt. Satyabhama Dei (J.C.), (*Dhamanagar*) ; Paramananda Mohany (P.S.P.), (*Dharmasala*) ; L. D. Majhi (S.C.) (Swa.), (*Dharmagarh*) ; Rajamata Ratnaprava Devi (Swa.), (*Dhenkanal*) ; Mohan Nayak (S.C.) (Cong.), (*Dura*) ; Lokanath Choudhury (C.P.I.), (*Erasama*) ; Haladhar Misra (Swa.), (*Gondia*) ; Muralidhar Kanungo (J.C.), (*Govindpur*) ; Bhagirathi Gumango (S.T.) (Cong.), (*Gurupur*) ; Brundaban Nayak (Cong.), (*Hinjili*) ; Udayanath Naik (S.C.), (Cong.), (*Jagannath Prasad*) ; K. C. Mallick (S.C.), (P.S.P.), (*Jagatsinghpur*) ; Prasannakumar Paul (P.S.P.), (*Jaleswar*) ; Santanu Kumar Das

(S.C.), (J.C.), (*Jajpur East*); Prafulla C. Ghadei (J.C.), (*Jajpur West*); Durga Charan Nayak (S.T.) (Swa.), (*Jashipur*); N. Rama Seshiah (Swa.), (*Jeypore*); Murari-prasad Misra (Swa.), (*Jharsuguda*); Maheswar Nayak (Swa.), (*Junagarh*); Gatikrishna Swain (C.P.I.), (*Kakatur*); Brundaban Tripathy (Swa.), (*Kamakhyanagar*); Loknath Rai (S.C.) (Swa.), (*Kantabani*); Prafullakumar Das (S.T.), (Swa.), (*Karanjia*); Dandapani Swain (C.P.I.), (*Kavisuryanagar*); Govinda Munda (S.T.) (Swa.), (*Keonjhar*); S. K. Kanungo (P.S.P.), (*Kendrapara*); Bhagaban Bhoi (Swa.), (*Kesinga*); Narayan Sahu (S.S.P.), (*Khallikote*); H. S. B. Mardaraj Roy (Cong.), (*Khandapara*); Anup Singh Deo (Cong.), (*Kharjar*); Harchand Hansada (S.T.) (P.S.P.), (*Khunta*); Raja Birakishore Deb (J.C.), (*Khurda*); Banamali Maharana (P.S.P.), (*Kodala*); Jhitru Naik (S.T.) (Swa.), (*Kodinga*); Raghunath Prahtaj (Swa.), (*Koksara*); Suryanarayan Mahji (S.T.) (Cong.), (*Kotpad*); Kanhai Singha (S.T.) (Swa.), (*Kuchinda*); Lal Rajendra Singh (S.T.) (Swa.), (*Laikera*); Nandakishore Misra (Swa.), (*Loisingha*); Birajaprasad Ray (P.S.P.), (*Mahanga*); Gangadhar Madi (S.T.) (Cong.), (*Malkangiri*); Birendra Kumar Sahu (Swa.), (*Melchhamunda*); Tareni Sardhara (S.T.) (Cong.), (*Mohana*); Sakila Soren (S.T.) (P.S.P.), (*Muruda*); Malu Santa (S.T.) (Cong.), (*Nandapur*); Bidika Mallanna (S.T.) (Swa.), (*Narayanpatna*); Anchal Majhi (S.T.) (Swa.) (*Narla*); Onkar Singh (S.T.) (Cong.), (*Nawapara*); Sadasiba Tripathy (Cong.), (*Nawarangpur*); Achutananda Mohanty (Ind.), (*Nayagarh*); Banamali Das (C.P.I.M.), (*Nilgiri*); Nilamani Sitha (S.C.) (J.C.), (*Nimapara*); Bira Bikramaditya Singh Bariha

(J.C.), (*Padampur*); Pabitra Mohan Pradhan (J.C.) (*Pal Lahara*); Nallakuruma Naikulu (Cong.), (*Parlakimedi*); Chakradhar Satpathy (P.S.P.) (*Palkura*); Biswanath Malik (S.C.) (P.S.P.), (*Patamundai*); Ramaray Munda (S.T.) (Swa.), (*Patna*); Ainthu Sahu (Swa.), (*Patnagarh*); Banamali Patnaik (J.C.), (*Pipli*); Barada Prasanna Kahar (S.T.) (Swa.), (*Phulabani*); Harihar Bahinipati (P.S.P.), (*Puri*); Bhikari Suna (S.C.) (Swa.), (*Rairakhole*); K. C. Majhi (S.T. (Swa.), (*Rairangpur*); Premchand Bhagat (S.T.) (Swa.), (*Rajgangpur*); S. N. Bhanj Deo (Ind.), (*Rajnagar*); Rajaballabh Misra (Swa.), (*Ramachandrapur*); Arjun Singh (S.T.) (Cong.), (*Ramagiri*); B. C. Singh Deo-Bajradhar Narendra Mahapatra (Cong.), (*Ranpur*); Anantaram Majhi (S.T.) (Cong.), (*Rayagada*); Rajkishore Samantaray (P.S.P.), (*Rourkela*); R. C. Singh Bhoi (Swa.), (*Saintala*); Surendranath Patnaik (J.C.), (*Salepur*); Banamali Babu (Cong.), (*Sambalpur*); Gangadhar Mahapatra (Cong.), (*Satyabadi*); Utsab Charan Jena (S.C.) (P.S.P.), (*Simulia*); Nilambar Raiguru (Swa.), (*Sonepur*); Haraprasad Mahapatra (Swa.), (*Soro*); Smt. Anandamanjari Debi (J.C.), (*Sukinda*); Harihar Patel (Swa.), (*Sundergarh*); A. N. Singh Deo (Swa.), (*Suruda*); Gangadhar Pradhan (S.T.) (Swa.), (*Talasara*); K. C. Behera (S.C.) (J.C.), (*Talcher*); Bagirathi Mahapatra (S.T.) (Swa.), (*Telkoi*); Nishamani Khuntia (P.S.P.), (*Tirtol*); Achyutananda Mahananda (Swa.), (S.C.), (*Titilagarh*); Radhamohan Misra (Swa.), (*Tusra*); Manmohan Tudu (S.T.) (J.C.), (*Udala*); Gopal Pradhan (S.T.) (Swa.), (*Udayagiri*); Rabi Singh Majhi (S.T.) (Cong.) (*Umerkote*).

PONDICHERY LEGISLATIVE ASSEMBLY

No. of Constituencies 30 (Pondicherry 20, Karikal 7, Mahe 2, Yanam 1).

Speaker: S. Perumal; *Dy. Speaker*: Marie Lourdes Selvaradjou.

An estimate of party position is as follows: D.M.K. 15; Congress 10; C.P.I. 3; Independent 2.

S. Perumal (D.M.K.), (*Ariancoupom*); K. Krishnasamy (S.C.) (Cong.), (*Bahour*); C. M. Achraff (D.M.K.), (*Bussy*); M. O. H. Farook (D.M.K.), (*Calapeth*); P. Ansari Doraisamy (Cong.), (*Cassicade*); Balaya alias Balakrishnan (S.C.) (Cong.), (*Kotchery*); G. Perumal Raja (D.M.K.), (*Couroussoucoupom*); K. R. Subramanya Padayachi (Cong.), (*Courouvinattam*); Smt. M. Veerammal (S.C.) (Cong.), (*Embalam*); V. Pandarinathan (D.M.K.), (*Grand*

Aldee); M. Jambulingam (Cong.), (*Karikal North*); Marie Lourdes Selvaradjou (D.M.K.), (*Karikal South*); I. K. Kumaran (Ind.), (*Mahe*); S. M. Subbarayan (D.M.K.), (*Mannadipeth*); V. Kailasa Subbiah (C.P.I.), (*Modeliar-peth*); K. Murugaiyan (D.M.K.), (*Mouttalpeth*); P. Shanmugam (Cong.), (*Nedoungadou*); N. Ranganathan (C.P.I.), (*Nellitope*); S. Ramassamy (D.M.K.), (*Naravy*); D. Ramachandran (D.M.K.), (*Nettapacom*); S. Muthu (D.M.K.), (*Oulgaret*); S. Govindarajulu (D.M.K.), (*Oupalom*); V. Nagarathinam (S.C.), (Cong.), (*Oussoudou*); V. N. Purushothaman (Cong.), (*Pallour*); N. Gurusamy (C.P.I.), (*Pondousaram*); D. Kantharaj (Cong.), (*Raj Nivas*); R. Supprayalu Naicker (D.M.K.), (*Tirnoular*); M. Thangavelu (S.C.) (D.M.K.), (*Tiroubouvane*); S. Arumugam (D.M.K.), (*Villennour*); K. P. Varapuradasa Rao Naidu (Ind.), (*Yanam*).

PUNJAB LEGISLATIVE ASSEMBLY

Strength 104; S.C. 23. Total number of electorates 6,691,885.

Party-wise estimate is: Congress 33; Akali Dal 52; Jan Sangh 8; Communist 4; Communist (Marxist) 2; P.S.P. 1; Swantantra 1; Samyukta Socialist 2; Vacant 1.

Speaker: Lt. Col. Sardar Joginder Singh. *Dy. Speaker*: Bikramjit Singh.

Satya Dev (J.S.), (*Abohar*); Kulwant Singh (C.P.I.), (*Adampur*); Major Harinder Singh (Cong.), (*Ajnala*); Pritam Singh (S.C.) (A.D.), (*Amloh*); Balaramji Das Tandon (J.S.), (*Amritsar Central*); Gian Chand Kharbanda (Cong.), (*Amritsar East*); Kirpal Singh (P.S.P.), (*Amritsar South*); Sat Paul Dang (C.P.I.), (*Amritsar West*); Sadhu Singh (Cong.), (*Anandpur Sahib*); Darshan Singh (S.C.) (C.P.I.-M.), (*Atari*); Tej Singh (A.D.), (*Baghapurana*); Jagat Ram (S.C.) (Cong.), (*Banga*); Tulsi Ram (Cong.),

(*Balachaur*); Balbir Singh (Ind.), (*Banur*); Umrao Singh (Cong.), (*Bara Pind*); Surjit Singh (A.D.), (*Barnala*); Brig. Bikramjit Singh (J.S.), (*Batala*); Hari Singh (A.D.), (*Beas*); Bachan Singh (S.C.) (Cong.), (*Bhadaur*); Teja Singh (A.D.), (*Bhatinda*); Parshotam Singh (A.D.), (*Budhlada*); Basant Singh (Swa.), (*Dakola*); Basant Singh (S.C.) (A.D.), (*Dakha*); Devinder Singh (A.D.), (*Dasuya*); Hardit Singh (C.P.I.-M.), (*Dhanaula*); S. S. Bassi (A.D.) (*Dharamkot*); Pritam Singh (A.D.), (*Dhariwal*); Sant Singh (A.D.), (*Dhuri*); Gian Chand (S.C.) (J.S.), (*Dina Nagar*); Dr. Bhagat Singh (S.C.) (A.D.), (*Faridkot*); Santokh Singh (Cong.), (*Fategarh*); Radha Kishan (Cong.), (*Fazilka*); Bal Mukand (J.S.), (*Ferozepur*); Mohinder Singh (A.D.), (*Ferozepur Cantt.*); Capt. Rattan Singh (Cong.), (*Garhshankar*); Prakash Singh (A.D.), (*Giddarbaha*); Mohinder Singh (A.D.), (*Gurdaspur*); Lachhman Singh (Cong.), (*Guruhar Sahai*); Balbir Singh (S.S.P.), (*Hoshiarpur*); Nahar Singh (Cong.), (*Jagraon*); Lajinder

Singh (Cong.), (*Jalalabad*); Darshan Singh Kaypee (S.C.) (Cong.), (*Jamshir*); Tara Singh (S.C.) (A.D.), (*Jandiala*); Sarup Singh (Cong.), (*Jullundur Cantt.*); Gurdial Saini (Cong.), (*Jullundur North*); Manmohan Kalia (J.S.), (*Jullundur South*); Bawa Harnam Singh (A.D.) (*Kapurthala*); Gurbanta Singh (S.C.) (Cong.), (*Kartarpur*); Mohan Singh Tur (A.D.), (*Khadoor Sahib*); Naurang Singh (S.C.) (A.D.), (*Khanna*); Sarjit Singh (A.D.), (*Kharar*); Harban Singh Brar (Cong.), (*Kolkapura*); Pratap Singh (A.D.), (*Kum Kalan*); Vacant (S.C.), (*Lambi*); Harchand Singh (A.D.), (*Lehra*); Sardari Lal (Cong.), (*Ludhiana North*); Joginder Pal (Cong.), (*Ludhiana South*); Kartar Singh (S.C.) (A.D.), (*Mahilpur*); Sushpal Singh (A.D.), (*Majitha*); H. H. Nawab Iftikar Mohd. Ali Khan (A.D.), (*Malerkotla*); Gurmit Singh (A.D.), (*Malout*); Sant Lakha Singh (A.D.), (*Mansa*); Rup Lal (S.S.P.), (*Moga*); Raja Singh (S.C.) (A.D.), (*Morinda*); Kewal Krishen (Cong.), (*Mukerian*); Gurdev Singh (S.C.) (A.D.), (*Muktsar*); Narinder Singh (Ind.), (*Nabha*); Darbara Singh (Ind.), (*Nakodar*); Bam Deve (J.S.), (*Narot Mehra*); Hardit Singh (S.C.), (A.D.), (*Nathana*); Dilbagh Singh (Cong.), (*Nawan Shahr*); Dalip

Singh (Cong.), (*Nihal Singhwala*); Balwant Singh (A.D.), (*Nur Mahal*); Trilochan Singh (Cong.), (*Pakka Kalam*); Ram Singh (Cong.), (*Pathankot*); Rawal Singh (A.D.), (*Patiala*); Surinder Singh Kairon (A.D.), (*Patti*); Beant Singh (A.D.), (*Payel*); Sadhu Ram (Cong.), (*Phagwara*); Surjit Singh Atwal (Cong.), (*Phillaur*); Babu Singh (C.P.-I.), (*Phul*); Satnam Singh Bajwa (A.D.), (*Qadian*); Gurnam Singh (A.D.), (*Quila Raipur*); Jagdev Singh (A.D.), (*Raikot*); Jasdev Singh (A.D.), (*Raipur*); Harbanslal (J.S.), (*Rajpura*); Ravi Inder Singh (A.D.), (*Ropar*); Pritam Singh (S.C.) (A.D.), (*Samana*); Kapur Singh (A.D.), (*Samrala*); Gurbaksh Singh (Cong.), (*Sangrar*); Kirpal Singh (Cong.), (*Sardulgarh*); Guran Dass Hans (S.C.) (Cong.), (*Sham Churasi*); Kundan Singh (S.C.) (A.D.), (*Sherpur*); Randhir Singh (A.D.), (*Sirhind*); Karam Singh (A.D.), (*Srihargobindpur*); Atma Singh (A.D.), (*Sultanpur*); Gurbachan Singh (A.D.), (*Sunam*); Ajit Singh (A.D.), (*Talwandi Sabo*); Dr. Amir Singh Kalkat (Cong.), (*Tanda*); Mohinder Singh (A.D.), (*Tarn Taran*); Gurmej Singh (J.S.), (*Verka*); Gurdip Singh (Cong.), (*Valtoha*); Mehtab Singh (Cong.), (*Zira*).

PUNJAB VIDHAN PARISHAD

Strength : 40 (including Chairman & Dy. Chairman).

An estimate of party strength : Congress 20 ; Independent 6 ; Jan Sangh 4 ; Communist 2 ; Peoples United Front 4 ; Punjab Janata Party 1 ; Akali Dal 2.

Chairman : Durga Das Khanna ; *Deputy Chairman* : S. F. Deane.

Local Authorities (14) : Hans Raj Sharma (Cong.), (*Amritsar-cum-Kapurthala*) ; Sardar Prem Singh Lalpur (A.D.), (*Amritsar-cum-Kapurthala*) ; Amrit Pal Singh (Ind.), (*Bhatinda*) ; Sardar Gurdas Singh (P.U.F.), (*Ferozepore*) ; Kundanlal Ahooja (Cong.), (*Ferozepore*) ; Th. Basant Singh (P.U.F.), (*Gurdaspur*) ; Sardar Kabul Singh (P.U.F.), (*Hoshiarpur*) ; Dr. Chanan Singh (Cong.), (*Jullundur*) ; Giani Shankar Singh (P.U.F.), (*Jullundur*) ; Sardar Ramdial Singh (Cong.), (*Ludhiana*) ; Sat Pal Mittal (Cong.), (*Ludhiana*) ; Sardar Bhagwant Singh (Cong.), (*Patiala-cum-Rupar*) ; Ram Nath (Cong.), (*Patiala-cum-Rupar*) ; Sardar Rajinder Singh (Cong.), (*Sangrur*).

Legislative Assembly (14) : Jathedar Jiwan Singh (Akali Dal) ; Vishva Mittar Sekhri (Cong.) ; Sardar Zail Singh (Cong.) ; Sardar Puran Singh Azad (Cong.) ; Smt. Sita Devi (Cong.) ; Avatar Narain Gujral (Cong.) ; Durga Das Khanna (Ind.) ; Prof. Yeshwant Rai (Cong.) ; Master Hari Singh (C.P.I.) ; Maharaj Sardar Nihal Singh (Cong.) ; Ch. Kartar Singh (Ind.) ; Com. Teja Singh Swantantar (C.P.I.) ; Shyamlal Thapar (Cong.) ; Hit Abhilashi (J.S.).

Graduates (3) : Murari Lal Kapoor (J.S.), (*Punjab Central*) ; Krishan Lal (J.S.), (*Punjab North*) ; Sudershan Kumar (J.S.), (*Punjab South*).

Teachers (3) : Master Gurcharan Singh (Ind.), (*Punjab Central*) ; Gopal Krishan Chatrath (Ind.), (*Punjab North*) ; Pt. Prem Chand Gupta (Ind.), (*Punjab South*).

Nominated (6) : S. F. Deane (Cong.) ; Mrs. Gian Kaur Vidyarthi (Cong.) ; Smt. Prabhjot Kaur (Cong.) ; Mrs. Pritpaul Kaur Wasu (Cong.) ; Ravindra Nath (Ind.) ; Raj Kumar Soni (P.J.P.).

RAJASTHAN LEGISLATIVE ASSEMBLY

Speaker : Niranchannath Acharya.

An estimate of party position is : Congress 110 ; Swatantra 29 ; Jan Sangh 19 ; Samyukta Socialist Party 7 ; Communist Party 1 ; Independents 5 ; Bharatiya Kranti Dal 11 ; Vacant Seats 2.

Gama Fataji (Cong.), (*Abu* (R)) ; Madho Singh (Cong.), (*Ahore*) ; Amba Lal (J.S.), (*Ajmer East*) ; Bhagwan Das (J.S.), (*Ajmer West*) ; Bitthal Prasad (Swa.), (*Aklara*) ; R. N. Agarwal (C.P.I.), (*Alwar*) ; Sahdev Sharma (Cong.), (*Amber*) ; G. L. Vyas (Cong.), (*Asind*) ; Ram Charan (Cong.), (*Atru* (R)) ; Lalit Singh (Cong.), (*Badi Sadri*) ; Nathuram (S.T.), (Cong.), (*Bagidora* (R)) ; Dheer Singh (Cong.), (*Bairath*) ; Prithvi Singh (Swa.), (*Bali*) ; Prithviraj Patel (Cong.), (*Bamanwas* (R)) ; Harideo Joshi (Cong.), (*Banaswara*) ; V. N. Joshi (Cong.), (*Bandikui*) ; Yaswant Singh (Cong.), (*Banera*) ; Badri Prasad Gupta (B.K.D.), (*Bansur*) ; Devi Dutta (J.S.), (*Baran*) ; Balwant (S.C.), (Cong.), (*Bari*) ; Birdhi Chand Jain (Cong.), (*Barmer*) ; Kanhaiya Lal (S.C.) (Swa.), (*Bassi* (R)) ; M. Behari Lal (S.S.P.), (*Bayana*) ; Fateh Singh (Swa.), (*Beawar*) ; Hari Singh (Cong.), (*Begun*) ; Ami Lal Yadav (Cong.), (*Behror*) ; Hans Raj Arya (Cong.), (*Bhadra*) ;

Dy. Speaker : Poonam Chand Bisnoi.

Nathi Singh (S.S.P.), (*Bharatpur*) ; Smt. Laxmikumari (Cong.), (*Bhim*) ; R. P. Ladha (Cong.), (*Bhilwara*) ; Jas Raj (Cong.), (*Bhinai* (R)) ; Aidan Singh (Swa.), (*Bhinmal*) ; Parasram Maderna (Cong.), (*Bhopalgarh*) ; Gokul Prasad Sharma (Cong.), (*Bikaner*) ; Kaluram Arya (Cong.), (*Bilara* (R)) ; B. S. Sharma (Cong.), (*Bundi*) ; Prem Singh Sidwi (J.S.), (*Chhabra*) ; Rawtharam (B.K.D.), (*Chapar* (R)) ; Ramkumar Nandwana (Cong.), (*Chithoudgarh*) ; Abdul Hadi (Cong.), (*Chohtan*) ; Ramkishore Vyas (Cong.), (*Chomu*) ; Ratan Lal (Cong.), (*Chorasi*) ; Megh Raj (B.K.D.) (*Churu*) ; Lachhman Thaniwal (J.S.), (*Dag*) ; Madan Singh (J.S.), (*Danta Ramgarh*) ; Doonga Ram Rajoria (S.C.) (Swa.), (*Dausa* (R)) ; Bujballabh Bohra (J.S.), (*Dugod*) ; Mathuradas Mathur (Cong.), (*Deodwana*) ; Aditendra (S.S.P.), (*Deeg*) ; Gauri Punya (Cong.), (*Degana*) ; Daulat Ram (S.C.) (Cong.), (*Desuri* (R)) ; Banwari Lal (Cong.), (*Dholpur*) ; Suwalal (Swa.), (*Dudu*) ; M. Laxman Singh (Swa.), (*Dungarpur*) ; Daulat Ram Saran (B.K.D.), (*Durgargarh*) ; Alam Ali Khan (Swa.), (*Fatehpur*) ; Mahendra Singh Panwar (Swa.), (*Gandhinagar*) ; Prof. Kedar Nath (S.S.P.), (*Ganganagar*) ; R. C. Paliwal (Cong.), (*Gangapur*) ;

Ganesh Lal (S.C.) (Cong.), (*Gangrar (R)*); Devendra Kumar (S.T.) (Cong.), (*Gogunda (R)*); S. N. Singh (Cong.), (*Gudha*); Gangaram Choudhary (Cong.), (*Gudhamalani*); Braj Prakash (Cong.), (*Hanumangarh*); Durgalal Batdar (Swa.), (*Hawamahar*); Sarvan Lal (S.C.) (J.S.), (*Hindawn*); Kesari Singh Handa (J.S.), (*Hindoli*); Kalyan Mal (S.T.) (Cong.), (*Jhazpur (R)*); Bal Singh (Swa.), (*Jaisalmer*); Sankar Lal (Cong.), (*Jaitaran*); Virda Ram (S.C.) (Cong.), (*Jalore(R)*); Nathu Lal (Swa.), (*Jamwa Ramgarh*); Ram Singh (B.K.D.), (*Jayal*); R. P. Bohra (B.K.D.), (*Jhalrapatan*); Sumitra (Cong.), (*Jhunjhunu*); Barakatulla Khan (Cong.), (*Jodhpur*); S. C. Agarwal (J.S.), (*Johari Bazar*); Majilis Khan (Cong.), (*Kaman*); Shankar Lal (Cong.), (*Kapasan*); Gurdip Singh (Cong.), (*Karanpur*); Maharajkumar Brijendra Pal Singh (Ind.), (*Karauli*); Ganga Sahai (S.C.), (J.S.), (*Kathumar (R)*); Devi Lal (Swa.), (*Kekri (R)*); Manphool Ram (Cong.), (*Keshrisinghpur (R)*); Gokul Chand (S.C.) (Cong.), (*Khairthal (R)*); Chunni Lal Jelia (Swa.), (*Khandar (R)*); Ram Chandar (B.K.D.), (*Khandela*); Smt. Shiv Kumari (J.S.), (*Khanpur*); Surendra Singh (Swa.), (*Kharchi*); Vidya Sagar (Cong.), (*Kherwara (R)*); Raghuveer Singh (Swa.), (*Khetri*); Nand Lal Dandwasi (J.S.), (*Kishanganj (R)*); Maharaja Sumar Singh (Swa.), (*Kishangarh*); Bhairon Singh (J.S.), (*Kishanpole*); Vacant, (*Kolayat*); Krishna Kumar Goel (J.S.), (*Kota*); Sri Ram Rawat (Cong.), (*Kotputli*); Hira Lal Devpura (Cong.), (*Kumbalgarh*); Man Singh (Ind.), (*Kumher*); Hira Bhai (S.S.P.), (*Kushalgarh (R)*); Nath Mal Chohla (Cong.), (*Lachmanagarh (R)*); Harjiram Burdak (B.K.D.), (*Ladnu*); Shambhu Ram (Swa.), (*Lalsot (R)*); Jai Narain (Cong.), (*Lasadia(R)*); P. C. Vishnoi (Cong.), (*Luni*); Bhim Sain (Cong.), (*Lunkaransar*); S. C. Singh (Cong.), (*Mahuwa*); Vijay Singh (Swa.), (*Makrana*); Damodar Lal Vyas (Cong.), (*Malpura*); K. K. Shivcharan (Cong.), (*Mandal*); Manohar Singh (Ind.), (*Mandalgarh*); Ram Narain (Cong.), (*Mandawa*); Hari Prasad (Cong.), (*Mandawar*); Narain Singh (Cong.), (*Masuda*); Niranjana Nath Acharya (Ind.), (*Mawali*); Goverdhan Soni (Swa.), (*Merta*); Nathi Lal (Cong.), (*Nadbai (R)*); Mohammad Usman (Cong.), (*Nagaur*); Vacant, (*Nasirabad*); Kishan Lal Sharma (Cong.), (*Nathdwara*); S. M. Basotiya (Cong.), (*Nawalgarh*); Kishan Lal

Shah (Swa.), (*Nawan*); Mohan Lal (Cong.), (*Nam-ka-Thana*); Srinivas (Cong.), (*Nimbahera*); Jai Narain Salodiya (S.C.) (Swa.), (*Niwai (R)*); Ram Chandra (B.K.D.), (*Nohar*); Chuni Lal Indaliya (B.K.D.), (*Nokha (R)*); Ranjit Singh (Cong.), (*Osiyan*); Mrs. Madan Kaur (Cong.), (*Pachpadra*); Mahendra Kumar (Cong.), (*Padwak (R)*); Mulchand Daga (Cong.), (*Pali*); Paras Ram Gangaram (S.C.), (Swa.), (*Parbatkar (R)*); Nand Lal (Cong.), (*Patan (R)*); Mulchand Katewa (Cong.), (*Pilani*); L. R. Sulania (Swa.), (*Phagi (R)*); Nathu Das (Swa.), (*Phalasia (R)*); Deep Chand Changani (Cong.), (*Phalodi*); P. K. Chaudhari (Cong.), Election Void (*Phulera*); Vitthal (S.S.P.), (*Pipal Khunt (R)*); Mahendra Singh (J.S.), (*Pipalda*); Kanhaiya Lal Patel (Cong.), (*Pirawa*); Har Lal (S.T.) (Cong.), (*Pratapgarh (R)*); Smt. Prabha Mishra (Cong.), (*Pushkar*); Mulk Raj (Cong.), (*Raisinghnagar (R)*); Samrath Lal (Cong.), (*Rajgarh (R)*); Prabhman Singh (Cong.), (*Rajakhera*); Amritlal Yadav (Cong.), (*Rajsamand (R)*); Jujhar Singh (B.K.D.), (*Ramganj*); Shobha Ram (Cong.), (*Ramgarh*); Durjan Singh (Cong.), (*Raniwada*); Moti Lal (Cong.), (*Reodar (R)*); Shish Ram (Cong.), (*Sadulpur*); Bheekha Bhai (Cong.), (*Sagwara (R)*); Jawaharmal (Cong.), (*Sahada*); Roshan Lal (Cong.), (*Salumber*); Birbal (Cong.), (*Sangariya (R)*); Raghunath Vishneyi (Cong.), (*Sanchor*); Ram Kumar (Cong.), (*Sapotra (R)*); Devi Lal (Cong.), (*Sarada (R)*); Om Dutt Bhati (J.S.), (*Sardarpura*); Roop Singh (Ind.), (*Sardar Shahr*); H. V. Sharma (Swa.), (*Sawai Madhopur*); Bhura Lal (Cong.), (*Shahpura (R)*); Khet Singh (Cong.), (*Shergarh*); Hukam Singh (Cong.), (*Shiv*); Ramdev Singh (Cong.), (*Sikar*); Kishan Lal Verma (S.T.), (Cong.), (*Sikrai (R)*); Madan Singh (Cong.), (*Sirohi*); Kalu Ram Meghwal (Cong.), (*Siwana (R)*); Pukhraj Kalani (Cong.), (*Sojat*); Har Lal Singh (J.S.), (*Sri Madhopur*); Labhchand Vaidya (J.S.), (*Sujanagarh*); Suraj Mal (Cong.), (*Surajgarh (R)*); P. C. Bafna (Swa.), (*Sumerpur*); Man Phool Singh (Cong.), (*Suratgarh*); Jai Krishan Sharma (Cong.), (*Thanagasi*); Aminuddin Ahmed (Cong.), (*Tijara*); Chuttan Lal (Cong.), (*Toda Bhim*); Jagan Nath (Cong.), (*Todaraisingh*); Vacant, (*Tonk*); Mohan Lal Sukhadia (Cong.), (*Udaipur*); Digvijay Singh (Swa.), (*Uniara*); Gulab Singh Shaktavaj (Cong.), (*Vallabhnagar*); Ram Kishan (S.S.P.), (*Weir*).

TAMIL NADU LEGISLATIVE ASSEMBLY

Constituencies: 234; Electorate: 2,07,97,325; Seats: 235 (S.C. 42; S.T. 2).

Speaker: K. Govindan; Dy. Speaker: Pulavar K. Govindan.

An estimate of party position is given below: D.M.K. 138; Cong. 49; Swa. 20; C.P.I. M. 10; P.S.P. 4; M.L. 3; S.S.P. 2; Ind. 2; C.P.I. 3; Republican Party 1; Tamil Arasu Kazhakam 1; F.B. 1; Nominated 1; Vacant 2.

P. S. Ellappan (S.C.) (Swa.), (*Acharapakkam*); A. Marimuthu (Cong.), (*Aduthurai*); K. V. Subbiah (D.M.K.), (*Alangudi*); V. Aladi Aruna (D.M.K.), (*Alangulam*); G. Gomathysankara Dikshidar (Cong.), (*Ambasamudram*); M. Panneerselvam (S.C.) (D.M.K.), (*Ambur*); E. M. Natarajan (D.M.K.), (*Andhiyur*); K. N. Ramachandran (D.M.K.), (*Andimadam*); S. Paramasivam (Swa.), (*Andipatti*); A. Duraiyarasan (D.M.K.), (*Arantangi*); S. Kandasamy Gounder (Swa.), (*Aravakurichi*); N. Veeraswamy (D.M.K.), (*Arcot*); R. Karupiah (Cong.), (*Ariyalur*); S. J. Ramaswamy (D.M.K.), (*Arkonam*); A. C. Narasimhan (D.M.K.), (*Arni*); Sowdi S. Sundara Bharathi (Swa.), (*Aruppukottai*); K. N. Sivaperumal (D.M.K.), (*Attur*); V. S. S. Mani (D.M.K.), (*Athoor*); R. Krishnaswami Gounder (Swa.), (*Avanashi*); M. R. Kannan (D.M.K.), (*Basin Bridge*); A. M. Raja (D.M.K.), (*Bhavani*); V. K. Ramarasan (SC) (D.M.K.), (*Bhavanisagar*); A. Govinda-

rasan (D.M.K.), (*Bhuvanagiri*); S. Srinivasan (Cong.), (*Bodinayakanur*); P. S. Santhanam (SC) (D.M.K.), (*Chengam*); D. S. Authimoolam (Swa.), (*Cheranmahadevi*); Pulavar K. Govindan (D.M.K.), (*Cheyyar*); R. Kanakasabai (Cong.), (*Chidambaram*); C. G. Viswanathan (D.M.K.), (*Chingleput*); M. Bhupathy (C.P.I. M.), (*Coimbatore East*); K. Govindarajulu (D.M.K.), (*Coimbatore West*); A. Chidambaramanathan Nadar, (Cong.), (*Colachel*); J. Bellie Gowder (D.M.K.), (*Coonoor*); Ere. Elamvazhuthi (D.M.K.), (*Cuddalore*); V. P. Palaniammal Tirumathi (SC) (D.M.K.), (*Dharapuram*); M. Subramania Gounder (D.M.K.), (*Dharmapuri*); A. Balasubramanyan (C.P.I. M.), (*Dindigul*); A. Arumugam (D.M.K.), (*Edappadi*); A. V. P. Asaithambi (D.M.K.), (*Egmore*); M. Chinnaasamy (D.M.K.), (*Erode*); R. Ramachandira Dorai (Cong.), (*Gandara-kottai*); A. Karupiah (SC) (D.M.K.), (*Gangaikondan*); V. Munuswami (D.M.K.), (*Gingee*); K. M. Ramaswami Gounder (Swa.), (*Gobichethipalayam*); C. Nanjan (SC) (Cong.), (*Gudalur*); V. K. Kothandaraman (C.P.I. M.), (*Gudiyattam*); K. Vezhavendan (D.M.K.), (*Gummidipundi*); Dr. Habibullah Baig (M.L.), (*Harbour*); N. Theerthagiri (SC) (Cong.), (*Harur*); B. Venkataswamy (Swa.), (*Hosur*); V. Malaikannan (D.M.K.), (*Ilayankudi*); A. K. Moorthy (SC) (D.M.K.), (*Jayankondam*); Kaliamoorthy alias A. K. Moorthy (SC) (D.M.K.), (*Jayankondam*); C. V. Velappan (D.M.K.), (*Kapilamalai*); M. Alangaram (SC) (D.M.K.),

(Kadaladi); C. V. M. Annamalai (D.M.K.), (Kadambathur); K. K. Muthiah (Cong.), (Kadavur); A. R. Subbiah Mudaliar (Ind.), (Kadayanallur); S. Murugian (D.M.K.), (Kalasapakkam); D. Kesavalu (D.M.K.), (Kallakurichi); N. Krishnan (D.M.K.), (Kancheepuram); M. Raman (SC) (D.M.K.), (Kandamangalam); A. Senapathi (Cong.), (Kangayam); L. Balaraman (Cong.), (Kaniyambadi); B. Mahadevan (Cong.), (Kanyakumari); S. Meiyappan (Swa.), (Karaikudi); A. R. Perumal (Swa.), (Kariappathi); T. M. Nallaswamy (Cong.), (Karur); G. Natarajan (D.M.K.), (Katpadi); S. Sivasubramanian (SC) (Cong.), (Kattumannarkoil); E. Pattabi Naidu (Cong.), (Kaveripathinam); M. William (Cong.), (Killiyoor); M. Kannappan (D.M.K.), (Kinathukadavu); C. Krishnamoorthi (D.M.K.), (Kodavasal); S. Alagrisamy (C.P.I.), (Koilpatti); A. K. Subbiah (SC) (C.P.I.), (Kottur); P. M. Muniswamy Gounder (Cong.), (Krishnagiri); P. Soundarapandian (SC) (D.M.K.), (Krishnarayapuram); M. Kandaswamy (D.M.K.), (Kulithalai); N. Kasiraman (Cong.), (Kumbakonam); M. Gopal (SC) (D.M.K.), (Kunnathur); N. Rajangam (SC) (D.M.K.), (Kurinjiyadi); G. Bharathi Mohan (C.P.I. M.), (Kuttalam); M. K. D. Natarajan (D.M.K.), (Lalgudi); C. Govindarajan (D.M.K.), (Madurai Central); Smt. K. P. Janakiammal (C.P.I. M.), (Madurai East); N. Sankariah (C.P.I. M.), (Madurai West); K. Cheemaichamy (Swa.), (Manamadurai); A. Krishnan (SC) (D.M.K.), (Mangalur); T. S. Swaminatha Odayar (Cong.), (Mannarkudi); Kolathur Kothandam (D.M.K.), (Mathuranthagam); N. Kittappa (D.M.K.), (Mayuram); R. R. Muniswamy (D.M.K.), (Melamalaiyannur); Haji M. M. Peer Mohammed (M.L.), (Melapalayam); P. Malaichamy (D.M.K.), (Melur); O. P. Raman (SC) (D.M.K.), (Melur South); T. T. S. Thippia (Cong.), (Mettupalayam); Surendran (P.S.P.), (Methur); K. R. Nallasivam (S.S.P.), (Modakkurichi); A. Govindaswamy (D.M.K.), (Mugaiyur); R. Rethina Thevar (Swa.), (Mudukulathur); P. S. Muthuselvan (D.M.K.), (Musiri); Rama Arangannal (D.M.K.), (Mylapore); K. R. Gnana-sambandan (C.P.I. M.), (Nagapathinam); M. C. Balan (D.M.K.), (Nagercoil); M. Muthusamy (D.M.K.), (Namakkal); N. Duraipandian (Cong.), (Nanguneri); P. Jayaraj (SC) (Cong.), (Nannilam); T. C. Thimmaraya Gounder (D.M.K.), (Natrampalli); C. Govindarajan (C.P.I. M.), (Nellikuppam); A. Muniyandi (SC) (D.M.K.), (Nilakkottai); C. Palani (SC) (D.M.K.), (Omalar); K. Bojan (Swa.), (Ootacamund); L. Ganesan (D.M.K.), (Orathanad); N. Nachimuthu (D.M.K.), (Ottanchatram); M. Muthiah (SC) (Swa.), (Ottapidaram); V. George (Cong.), (Padmanabhapuram); K. Murugesan (Cong.), (Palarode); K. Krishnamoorthi (SC) (D.M.K.), (Palani); K. N. Kumarasamy (P.S.P.), (Palladam); T. Ponnunilai (D.M.K.), (Panamarathupatti); S. Ramachandran (D.M.K.), (Ponruti); R. Soundararaja Mooppanar (Cong.), (Papanasam); T. K. Siraimetan (SC) (D.M.K.), (Paramakudi); H. V. Hande (Swa.), (Park Town); A. R. Marimuthu (P.S.P.), (Pattukottai); P. K. C. Muthuswamy (Cong.), (Pennagaram); J. S. Rasu (SC) (D.M.K.), (Perambalur); Dr. Satyavani-muthu (SC) (D.M.K.), (Perambur); V. D. Annamalai (D.M.K.), (Pernamallur); P. Jayaraman (SC) (D.M.K.), (Pernampattu); M. Krishnamoorthi (D.M.K.), (Peraurani); M. Mehta (D.M.K.), (Periakulam); S. Shanmugasundaram (S. S. P.), (Perunthurai); N. Marudachalam (SC) (C.P.I.), (Perur); A. P. Shanmugasundaram (D.M.K.), (Pollachi); Thirumathi S. Kupppammal (D.M.K.), (Polur); P. N. Paramasivam (D.M.K.), (Pongalur); P. Nagalingam (SC) (D.M.K.), (Ponneri); R. Vijaya Raghunatha Thondaiman (Cong.), (Pudukkottai); V. S. Govindarajan (D.M.K.), (Purasawalkam); N. Soundarapandian (Cong.), (Radhapuram); A. A. Subbaraja (Ind.), (Rajapalayam); T. Thangappan (D.M.K.), (Ramanathapuram); M. Abdul Ghaffoor Sahib (M.L.), (Ranipet); P. Periasamy (D.M.K.), (Rasipuram); M. Anandan (SC) (D.M.K.), (Rishivandiyam);

M. Karunanidhi (D.M.K.), (Saidapet); K. Jayaraman (D.M.K.), (Salem-I); E. R. Krishnan (D.M.K.), (Salem-II); P. Durairaj (SC) (D.M.K.), (Sankarankoil); C. Veeramani (SC) (D.M.K.), (Sankari); S. P. Pachaiyappan (D.M.K.), (Sankarapuram); P. G. Karuthiruman (Cong.), (Satyamangalam); T. Martin (Cong.), (Sattangulam); Srinivasa Naicker (Swa.), (Sattur); V. Thavamani Thevar (Swa.), (Sedapatti); S. Ganesan (D.M.K.), (Sembarkoil); A. Sella Gounder (ST) (Cong.), (Sendamangalam); P. S. Manian (D.M.K.), (Sholavandan); R. N. Aranganathan (D.M.K.), (Sholinghur); P. Velusamy (P.S.P.), (Singanallur); K. B. S. Mani (SC) (Rep.), (Sirkali); S. Sethuraman (D.M.K.), (Sivaganga); S. Alagu Thevar (F.B.), (Sivakasi); D. Irarajathinam (D.M.K.), (Sriperumbudur); S. Ramalingam (SC) (Cong.), (Srirangam); S. I. P. A. Aditanar (D.M.K.), (Srivaikuntam); K. Gurusamy (SC) (D.M.K.), (Srivilliputhur); M. G. Ramachandran (D.M.K.), (St. Thomas Mount); M. Marimuthu (SC) (D.M.K.), (Talavasal); K. M. Kathiravan (D.M.K.), (Tenkasi); K. Sahadeva Gounder (Cong.), (Thandarambattu); A. Y. S. Parisutha Nagar (Cong.), (Thanjavur); Palanivel Rajan (D.M.K.), (Theni); M. P. Sivagnanam (Tamil Arasu Kazhakam), (Thiyagarayanagar); N. S. V. Chithan (Cong.), (Thirumangalam); K. R. M. Kariamanickam Ambalam (Swa.), (Thiruvadanai); N. Dharmalingam (D.M.K.), (Thiruthuraiyandi); Pulavar G. Murugaiyan (D.M.K.), (Thiruvarur); P. S. Dhanushkodi (SC) (C.P.I. M.), (Thiruvarur); V. Swaminathan (Cong.), (Thiruverumbur); R. Manickavachagam (D.M.K.), (Thondamuthur); S. K. Vadivel (D.M.K.), (Thottiyam); K. A. Mathianagan (D.M.K.), (Thousand Lights); K. Ramamoorthy (Cong.), (Tindivanam); G. R. Edmund Fernando (D.M.K.), (Tiruchendur); T. A. Rajavelu (D.M.K.), (Tiruchengode); M. S. Mani (D.M.K.), (Tiruchirappalli-I); R. Nagasundaram (D.M.K.), (Tiruchirappalli-II); E. M. Subramaniam (Cong.), (Tirukkkoilur); Pulavar P. Ponnambalam (D.M.K.), (Tirumayam); A. L. Subramaniam (D.M.K.), (Tirunelveli); C. K. Chinnarajee (D.M.K.), (Tirupattur); S. Agni Raju (D.M.K.), (Tirupparankundram); S. Madhavan (D.M.K.), (Tiruppathur); Munu Adhi (D.M.K.), (Tirupporur); S. Duraisamy (D.M.K.), (Tiruppur); K. Vinayakam (Cong.), (Tirutani); S. M. Dorairaj (SC) (D.M.K.), (Tiruvallur); D. Vijayaraj (Cong.), (Tiruvannamalai); J. James (Cong.), (Tiruvattar); A. P. Arasu (D.M.K.), (Tiruvottiyur); K. R. Govindan (D.M.K.), (Toramangalam); V. R. Nedunchezhiyan (D.M.K.), (Triplicane); M. S. Sivasami (D.M.K.), (Tuticorin); K. S. Kothandaramiah (Swa.), (Uddanapalle); S. J. Sadiq Pasha (D.M.K.), (Udumalpet); M. Kandasamy Padayachi (Cong.), (Ulundurpet); T. P. Alagamuthu (D.M.K.), (Uppiliapuram); Mookiah Thevar (Swa.), (Usilampatti); T. Theerthagiri Gounder (Cong.), (Uthangarai); K. M. Rajagopal (D.M.K.), (Uttiramerur); P. Thambi Naicker (Cong.), (Vadamadurai); N. Somasundaram (SC) (D.M.K.), (Valangiman); E. Ramasami (SC) (D.M.K.), (Valparai); S. A. Rajamannar (Cong.), (Vaniyambadi); A. G. Balakrishnan (SC) (D.M.K.), (Vannur); R. Narayanan (D.M.K.), (Varahur); A. Velladurai (D.M.K.), (Vasudevanallur); P. Venkatachala Thevar (Cong.), (Vedaranyam); N. Varadarajan (C.P.I. M.), (Vedasandur); S. Arumugam (D.M.K.), (Veerapandi); K. N. Saminatha (D.M.K.), (Vellakoil); M. P. Sarathi (D.M.K.), (Vellore); M. Rathinasabapathy (D.M.K.), (Vilathikulam); R. Ponnappa Nadar (Cong.), (Vilavancode); M. Shanmugam (D.M.K.), (Villupuram); V. S. Ilanchezian (D.M.K.), (Virudhunagar); P. Sreenivasan (D.M.K.), (Virudhunagar); G. Bhuvarahan (Cong.), (Vridhachalam); S. Muthulingam (SC) (D.M.K.), (Wandiwash); M. Vedachalam (D.M.K.), (Washermenpet); V. Chinnasamy (ST) (D.M.K.), (Yercaud); Thirumathi A. Soares (Affiliated to D.M.K.), (Nominated).

TAMIL NADU LEGISLATIVE COUNCIL

An estimate of party strength is as follows : Congress 29 ; United Party 4 ; Dravida Munnetra Kazhagam 19 ; Indian Union Muslim League 1 ; Toilers Commonwealth Party 1 ; Swatantra 3 ; Independent 5 ; Tamil Arasu Kazhagam 1.

Chairman : M. A. Manickavelu ; *Deputy Chairman* : Vacant ; *Secretary* : G. M. Alagarswamy.

Legislative Assembly Constituency (21) : K. S. Abdul Wahab (I.U.M.L.) ; Alamelu Appadurai (D.M.K.) ; T. S. Arunachalam (Cong.) ; C. P. Chitrarasu (D.M.K.) ; M. Ethirajalu (Cong.) ; Saw. Ganesan (Swa.) ; R. Krishnaswami Naidu (Cong.) ; S. V. Lakshmanan (Cong.) ; Smt. Lakshmi Krishnamoorthy (Cong.) ; M. A. Manickavelu ; Mohanlal Mehta (Cong.) ; S. Muthu (D.M.K.) ; N. V. Natarajan (D.M.K.) ; G. Parangusam (D.M.K.) ; A. Ponnappa Naidu (Cong.) ; T. K. Ponnuruvelu (D.M.K.) ; C. V. Rajagopal (D.M.K.) ; S. Raghavanandham (D.M.K.) ; K. Ramakrishna Achari (Cong.) ; R. Raman Nair (Cong.) ; V. Thanga Pandian (D.M.K.).

Local Authorities' Constituency (21) : S. T. Adityan (D.M.K.) ; C. N. Annadurai (D.M.K.) ; A. Chidambaram Mudaliar (Cong.) ; T. V. Devaraja Mudaliar (Cong.) ; K. Doraiswamy (Cong.) ; S. Jayarama Reddiar (Cong.) ;

T. M. Kaliyannan (Cong.) ; K. K. Kothandaraman (Cong.) ; K. S. Mani (D.M.K.) ; P. T. Muthu (D.M.K.) ; S. S. Ramaswamy Padayatchi (T.C.W.P.) ; V. K. Ramaswamy Mudaliar (Cong.) ; R. Sambasivam (D.M.K.) ; M. Sivasubramania Pandian (Cong.) ; T. S. Srinivasam Pillai (Cong.) ; T. K. Subbiah (Cong.) ; N. Sundaresa Thevar (Cong.) ; N. R. Thiagarajan (Cong.) ; P. Thirugnanasambandam (D.M.K.) ; Wilson Apollos (Cong.) ; G. Vijayarangam (Cong.).

Graduates' Constituency (6) : A. R. Damodaran (U.P.) ; V. Isvarmurti (Ind.) ; Dr. A. Lakshmanaswami Mudaliar (U.P.) ; D. Santosham (U.P.) ; G. Vasanta Pai (Ind.) ; G. Swaminathan (Swa.).

Teachers' Constituency (6) : K. Arivazhagan (D.M.K.) ; G. R. Damodaran (Cong.) ; G. Krishnamoorthy (U.P.) ; M. Rajah Iyer (Ind.) ; M. Sankaralingam Pillai (Ind.) ; P. U. Shanmugham (D.M.K.).

Nominated (9) : A. P. Janardhanam (D.M.K.) ; M. Aiyaswamy (Cong.) ; Smt. S. Manjubashini (Cong.) ; Dr. M. A. Muthiah Chettiar (Cong.) ; Smt. Mary Clubwala Jadhav (Ind.) ; D. V. Narayanaswamy (D.M.K.) ; O. P. Ramaswami Reddiar (Cong.) ; Smt. Saraswathi Pandurangam (Cong.) ; T. K. Shanmugham (T.A.K.).

TRIPURA LEGISLATIVE ASSEMBLY

Constituencies : 30, Seats : 33.

Total electorates 6,05,926 ; Reservation of seats :— Scheduled Castes 3 ; Scheduled Tribes 9.

Speaker : Manindra Lal Bhowmick ; *Dy. Speaker* : Monoranjan Nath.

An estimate of party position is as follows : Congress 27 ; Communist 1 ; Communist (Marxist) 2 ; Nominated 3.

Dr. Benode Behari Das (S.C.) (Cong.), (*Agartala Sadar I*) ; Sachindra Lal Singh (Cong.), (*Agartala Sadar II*) ; Tarit Mohan Dasgupta (Cong.), (*Agartala Sadar III*) ; Krishнадас Bhattacherjee (Cong.), (*Agartala Town*) ; Upendra Kumar Roy (Cong.), (*Belonia*) ; Bajuban Riyan (S.T.) (Cong.), (*Birganj*) ; Umesh Lal Singh (Cong.), (*Bishalgarh*) ; Aghore Deb Barma (S.T.) (C.P.I.), (*Charilam*) ; B. B. Banerjee (Cong.), (*Dharmanagar North*) ; Monoranjan Nath (Cong.), (*Dharmanagar South*) ; R. C. Deb Rankhal (S.T.) (Cong.), (*Dumburnagar*) ; R. R. Gupta (Cong.),

(*Fatikroy*) ; Abdul Wazid (Cong.), (*Kadamtala*) ; M. L. Bhowmick (Cong.), (*Kailasanar*) ; B. C. Deb Barma (S.T.) (C.P.-M.), (*Kalyanpur*) ; Kshitish Chandra Das (S.C.) (Cong.), (*Kamalpur*) ; R. P. Chowdhury (S.T.) (Cong.), (*Kanchanpur*) ; S. C. Dutta (Cong.), (*Khowai*) ; Ghaneshyam Dewan (S.T.) (Cong.), (*Kulaihour*) ; P. R. Dasgupta (Cong.), (*Mohanpur*) ; S. C. Choudhury (Cong.), (*Mohuri-pur*) ; Jatindra Kumar Majumdar (Cong.), (*Old Agartala*) ; N. K. Sarkar (Cong.), (*Radhakishorepur*) ; Angju Mog (S.T.) (Cong.), (*Sabroom*) ; Ershad Ali Choudhury (Cong.), (*Salgarh*) ; D. K. Choudhury (Cong.), (*Sonamura North*) ; Munchor Ali (Cong.), (*Sonamura South*) ; M. Deb Barma (S.T.) (Cong.), (*Takarjala*) ; Prafulla Kumar Das (S.C.) (Cong.), (*Teliamura*) ; A. Deb Barma (S.T.) (C.P.-M.), (*Uttar Debendranagar*) ; Rajkumar Kamaljit Singh (*Nominated*) ; Naresh Roy (*Nominated*) ; Smt. Renu Chakraborty (*Nominated*).

UTTAR PRADESH LEGISLATIVE ASSEMBLY

(See page 301).

UTTAR PRADESH VIDHAN PARISHAD

Strength : 108.

Chairman : Virendra Swaroop.

Dy. Chairman : Vacant.

An estimate of party position is as follows :— Congress 62 ; BKD 4 ; Independent 10 ; Nationalist Party 10 ; Jan Sangh 5 ; Republican 1 ; Samyukta Socialist 4 ; Praja Socialist 3 ; Communist (Marxist) 1.

Elected by Legislative Assembly (39)

Ajai Kumar Basu (Cong.) ; Istafa Husain (Cong.) ; Uma Shanker (Cong.) ; Smt. Begum Mohsina Khalil (Kidwai (Cong.) ; Jagar Nath (S.S.P.) ; Kailash Prakash (Cong.) ; Kalyan Chand (Cong.) ; Balder Singh Arya (Cong.) ; Nathu Ram (Cong.) ; Smt. Sunita Chauhan (Cong.) ; Ram Ghulam (BKD) ; Dr. Purshottam Das Kapoor (Jan Sangh) ; Shiv Prasad Singh (Cong.) ; Shakir Ali Siddiqi (Cong.) ; Ram Prakash Gupta (J.S.) ; Rajendra

Pal Singh (Cong.) ; Dr. Ram Chandra Shukla (P.S.P.) ; Mohd. Shahid Fakhiri (Cong.) ; Sita Ram Yadav (J.S.) ; Chedilal Sathi (Rep.) ; Ram Naresh Singh (J.S.) ; Gouri Shanker Rai (Cong.) ; Virendra Shah (J.S.) ; Ram Dhari Pandey (Cong.) ; Rani Tandon (Cong.) ; Banshi Dhar Shukla (Cong.) ; Ram Charan Pandey (Cong.) ; Beni Prasad Madhav (P.S.P.) ; Pyarelal Kureel Talib (Cong.) ; Ganesh Datta Palwal (J.S.) ; Biri Singh (Cong.) ; Vasudev Misra (Cong.) ; Ram Sagar Misra (S.S.P.) ; Smt. Shivrajwati Nehru (Cong.) ; Salig Ram Jaiswal (S.S.P.) ; Smt. Daya Vati (Cong.) ; Saeedul Hasan (Cong.) ; Vacant 2.

Local Authorities (39)

S. P. Gupta (Cong.), (*Agra*) ; Sri Nivas (Cong.), (*Ali-garh*) ; Parmanand Sinha (Cong.), (*Allahabad*) ; Kr. Devendra Pratap Singh (Cong.), (*Gonda*) ; Bindhyachal Rai (Cong.), (*Azamgarh-cum-Ghazipur*) ; Tej Bahadur (Com.),

(Azamgarh-cum-Ballia-cum-Ghazipur); Hukum Singh Visen (Cong.), (Bahraich); Ram Milan Singh (P.S.P.), (Basti-cum-Gorakhpur-cum-Deoria); Jagannath Acharya (Cong.), (Basti-cum-Gorakhpur); Mathura Pd. Pandey (Cong.), (Basti-cum-Gorakhpur); Yashpal Singh Azad (Cong.), (Bulandshahr); Shri Krishna Goyal (Cong.), (Buddawn-cum-Rampur); Smt. Malti Pandey (Ind.), (Deoria-cum-Ballia); Heera Singh (B.K.D.), (Faizabad); Mangla Prasad (Cong.), (Fatehpur-cum-Banda); Sultan Singh Bhandari (Cong.), (Garhwal-cum-Bijnor); Behari Lal Vashishtha (Cong.), (Hamirpur-cum-Jhansi); Raghuraj Singh (Cong.), (Jalun-cum-Elawah); Raja Chandra Bhal Deo (Cong.), (Jaunpur); C. L. Paliwal (Cong.), (Kanpur-cum-Farrukhabad); Virendra Bahadur Singh Chandel (P.S.P.), (Kanpur-cum-Farrukhabad); Shiv Chandra Dixit (Cong.), (Kheri-cum-Sitapur-cum-Hardoi); Ram Ratan Singh (Cong.), (Kheri-cum-Sitapur-cum-Hardoi); Kr. Guru Narain (Cong.), (Lucknow-cum-Unnao cum-Rae-Bareilly); Dr. Ram Narain Pandey (Cong.), (Lucknow-cum-Unnao-cum-Rae-Bareilly); Sultan Singh Pachori (B.K.D.), (Mainpuri-cum-Etah-cum-Mathura); Nawab Singh Yadav (Cong.), (Mainpuri-cum-Etah-cum-Mathura); Premsundar Narain Singh (Cong.), (Meerut-cum-Muzaffarnagar); Prabhu Dayal (B.K.D.), (Meerut-cum-Muzaffarnagar); Dau Dayal (Cong.), (Moradabad); Maulana Abdur Rauf (Cong.), (Navital-cum-Bareilly); Kr. Jyoti Prasad (Cong.), (Pilibhit-cum-Shahjahanpur); Kr. Rudra Pratap Singh (Cong.), (Pratapgarh-cum-Sultanpur-cum-Barabanki); Munishwar Dutt Upadhyaya (Cong.), (Pratapgarh-cum-Sultanpur-cum-Bara-Banki); Yashpal Singh (Ind.), (Saharanpur-cum-Dehra Dun); Pyarelal Gupta (Cong.),

(Uttarkhand-cum-Tehri Garhwal-cum-Almora); Onkar Nath Upadhyaya (Cong.), (Varanasi-cum-Mirzapur); Prabhu Narain Singh (S.S.P.), (Varanasi-cum-Mirzapur).

Graduates (9)

Purshottam Das (Nationalist), (Agra); Dr. Ishwari Prasad (Ind.), (Allahabad); S. N. M. Tripathi (Ind.), (Gorakhpur-cum-Faizabad); Virendra Swarup (Cong.), (Kanpur-cum-Jhansi); Hari Krishna Awasthi (Ind.), (Lucknow); Madan Mohan (Ind.), (Meerut); Sambhoo Nath Agnihotri (N.P.), (Rohilkhand); Jagannath Sharma (Cong.), (Uttarkhand-cum-Kumaun); Hariday Narain Singh (Nationalist), (Varanasi).

Teachers (9)

Lallu Singh Chauhan (N.P.), (Agra); Parasnath (N.P.), (Allahabad); Devi Pd. Misra (S.S.P.), (Gorakhpur-cum-Faizabad); Jagvir Singh (N.P.), (Kanpur); B. P. Bajpai (N.P.), (Lucknow); Hariraj Singh (N.P.), (Meerut); Jagdish Prasad Agarwal (N.P.), (Rohilkhand); Ram Singh (N.P.), (Uttarkhand-cum-Kumaun); Harihar Pandey (N.P.), (Varanasi).

Nominated (12)

Sultan Alam Khan (Cong.); P. Tandon (Ind.); P. N. Mehta (Ind.); Dr. Charan Singh (Cong.); Surya Pd. Awasthi (Cong.); L. N. Sarin (Cong.); Shiv Kumar Singh Visen (Cong.); Smt. Sheila Kaul (Cong.); S. N. Ghosh (Ind.); Raja Ram Shastri (Cong.); R. C. Gupta (Cong.); Smt. Premwati Tewari (Cong.).

WEST BENGAL LEGISLATIVE ASSEMBLY

(See page 303)

WEST BENGAL LEGISLATIVE COUNCIL

Strength : 75.

Chairman : Vacant.

Dy. Chairman : Upendranath Barman.

Local Authorities' Constituencies (27): Bibhutibushan Ghatak (Bankura); Vacant (Birbhum); Bamandas Mukherjee (Burdwan); Dr. Rudranath Ghosh (Burdwan); Amulya Chandra Sirkar (Calcutta); Nandalal Banerjee (Calcutta); Kumar Dutt (Calcutta); Sudhir Chandra Niyogi (Cooch Behar); P. P. Rai (Darjeeling); Byomkesh Chakravarti (Dinajpur West); Sudhindra Nath Mukherjee (Hooghly); Nirmal Kumar Sen (Hooghly); Biswaratan Ganguly (Howrah); Lalit Mohan Chatterjee (Howrah); Chikur Ranjan Chanda (Jalpaiguri); Naren Chakrabarty (Malda); Chittaranjan Roy (Midnapur); Ramdas Ram-anujdas Mohanta (Midnapur); Dr. Das Behari Pal (Midnapur); Abdul Bari Biswas (Murshidabad); Durgapada Sinha (Murshidabad); Dr. Biswaranjan Roy (Nadia); Dharendra Nath Bhattacharya (Purulia); Dr. Janaki Ballabha Bhattacharyya (24-Parganas); Amalendu Sekhar Naskar (24-Parganas); Pijush Chandra Ghose (24-Parganas); Monmotho Nath Bannerjee (24-Parganas).

Graduates' Constituencies (6): Narendra Nath Das (Calcutta); Gopal Halder (Calcutta); Nanda Kishore Ghose (Calcutta); Dr. Charu Chandra Sanyal (West Bengal—North); Nirmalya Bagchi (West Bengal—S. West); Rehati Raman Manna (West Bengal—S. East).

Teachers' Constituencies (6): Satya Priya Roy (Calcutta); Smt. Anila Debi (Calcutta); Rajkumar Chakraverty (24-Parganas); Subhodh Chandra Mitra (West Bengal—North); Santosh Kumar Bhattacharyya (West Bengal—S. East); Manoranjan Sen Gupta (West Bengal—S. West).

Elected by Legislative Assembly (27): Upendranath Barman; Sukumar Dutta; Dr. Esmail Ebrahim; Nar Bahadur Gurung; Dhajadhari Mondal; Nirmal Bose; Biswanath Mukherjee (Cal); Snehangshu Kanta Acharyya; Abdullah Rasul; Rezaul Karim; Smt. Ava Chatterjee; Ram Lagan Singh; Dharamchand Sarawgi; Rabindranath Sikder; Rabindralal Sinha; Makhani Paul; Nirmal Chandra Bhattacharyya; Biswanath Mukherjee (Midnapur); Vacant—9.

Nominated by Governor (9): Dr. Anil Chandra Banerjee; Smt. Reba Sen; Hazi Mohiuddin Ahmed; Kedar Nath Mukherjee; Gobindlal Saraogi; Vacant—4.

LOK SABHA

Seats : 523 ; No. of seats reserved for S.C. : 76 ; No. of seats reserved for S.T. : 33 ; Nominated under article 371 of the Constitution by the President : 3.

Speaker : Vacant ; *Dy. Speaker* : R. K. Khadilkar. *Secretary* : S. L. Shakhder.

An estimate of party position is given below :—Congress : 288 ; Communist : 25 ; Praja Socialist Party : 18 ; Jan Sangh : 31 ; Swatantra : 43 ; Samyukta Socialist Party : 18 ; Republican : 1 ; All Party Hill Leaders' Conference : 1 ; Dravida Munnetra Kazhagam : 25 ; Independents : 48 ; Communist (Marxist) : 18 ; P.W.P. : 2 ; Forward Bloc : 2 ; Vacant : 3.

ANDHRA PRADESH—41

P. Ganga Reddy (Cong.), (*Adilabad*) ; B. S. Murthy (Cong.), (*Amalapuram—S.C.*) ; M. S. Murthy (Cong.), (*Anakapalli*) ; P. Anthony Reddy (Cong.), (*Anantapur*) ; Smt. B. Radhabai Ananda Rao (Cong.), (*Bhadrachalam S.T.*) ; Karri Narayana Rao (Cong.), (*Bobilli*) ; N. P. C. Naidu (Cong.), (*Chittoor*) ; Y. Easwara Reddy (Com.) (*Cuddapah*) ; Kommareddi Suryanarayana (Cong.), (*Eluru*) ; Maganti Ankineedu (Cong.), (*Gudivada*) ; K. Raghuramaiah (Cong.), (*Guntur*) ; N. Sanjiva Reddy (*Speaker), (*Hindpur*) ; G. S. Melkote (Cong.), (*Hyderabad*) ; M. Thirumala Rao (Cong.), (*Kakinada*) ; J. Ramapathi Rao (Cong.), (*Karimnagar*) ; R. Dasaratha Rama Reddy (Cong.), (*Kavali*) ; Smt. T. Lakshmikanthamma (Cong.), (*Khammam*) ; Y. Gadilingana Goud (Swa.), (*Kurnool*) ; J. Rameshwar Rao (Cong.), (*Mahbubnagar*) ; Y. Ankineedu Prasad (Cong.), (*Machilipatnam*) ; Smt. Sangam Luxmi Bai (Cong.), (*Medak*) ; J. B. Muthyal Rao (Cong.), (*Nagarkurnool—S.C.*) ; Mohammad Yunus Saleem (Cong.), (*Nalgonda*) ; P. Venkata Subbaiah (Cong.), (*Nandyal*) ; D. Balarama Raju (Cong.), (*Narasapur*) ; Maddi Sudarsanan (Cong.), (*Narasaraopet*) ; B. Anjanappa (Cong.), (*Nellore—S.C.*) ; G. S. Reddi (Cong.), (*Niryalguda*) ; M. Narayan Reddy (Ind.), (*Nizamabad*) ; K. Jaggaiah (Cong.), (*Ongole*) ; Viswarai Narasimha Rao (Swa.), (*Parvathipuram*) ; M. R. Krishna (Cong.), (*Peddapalli—S.C.*) ; D. S. Raju (Cong.), (*Rajahmundry*) ; P. Parthasarathy (Cong.), (*Rajampet*) ; Bakar Ali Mirza (Cong.), (*Secunderabad*) ; G. Venkatswamy (Cong.), (*Siddipet—S.C.*) ; N. G. Ranga (Swa.), (*Srikakulam*) ; C. Dass (Cong.), (*Tirupathi—S.C.*) ; Dr. K. L. Rao (Cong.), (*Vijayawada*) ; Tenneti Viswanatharao (Ind.), (*Visakhapatnam*) ; R. Surender Reddy (Cong.), (*Warangal*) ;

ASSAM—14

G. G. Swell (APHLC), (*Autonomous Districts—S.T.*) ; F. A. Ahmed (Cong.), (*Barpeta*) ; Smt. Jyotsna Chanda (Cong.), (*Cachar*) ; Jahan Uddin Ahmed (P.S.P.), (*Dhubri*) ; J. N. Hazarika (Cong.), (*Dibrugarh*) ; Dhireswar Kalita (Com.), (*Gauhati*) ; Rajendranath Barua (Cong.), (*Jorhat*) ; Bedabrata Barua (Cong.), (*Kaliabor*) ; N. R. Laskar (Cong.), (*Karimganj—S.C.*) ; Basumatari (Cong.), (*Kokrajhar—S.T.*) ; Biswanarayan Shastri (Cong.), (*Lakhimpur*) ; Hem Barua (P.S.P.), (*Mangaldai*) ; Liladhar Kotoki (Cong.), (*Nowgong*) ; B. Bhagavati (Cong.), (*Tezpur*).

BIHAR—53

T. Ram (Cong.) (*Araria—S.C.*) ; Mudrika Sinha (Cong.), (*Aurangabad*) ; Bhola Raut (Cong.), (*Bagaha—S.C.*) ; Beni Shanker Sharma (J.S.), (*Banka*) ; Smt. Tarkeshwari Sinha (Cong.), (*Barh*) ; Yogindra Sharma (Com.), (*Begusarai*) ; K. N. Tewari (Cong.), (*Bettiah*) ; Bhagwat Jha Azad (Cong.), (*Bhagalpur*) ; Shiopujan Shastri (Ind.), (*Bikramganj*) ; Dr. Ram Subhag Singh (Cong.), (*Buxar*) ; Ramshekhar Prasad Singh (Cong.), (*Chapra*) ; Smt. Vijaya Raje (Ind.), (*Chatra*) ; Satya Narain Sinha (Cong.),

(*Darbhanga*) ; Rani Lalita Rajya Laxmi (Ind.), (*Dhanbad*) ; S. C. Besra (Cong.), (*Dumka—S.T.*) ; Ram Dhani Das (Cong.), (*Gaya—S.C.*) ; Imteyazuddin Ahmad (Cong.), (*Giridih*) ; Prabhu Dayal Himatsinghka (Cong.), (*Godda*) ; Pandit D. N. Tiwary (Cong.), (*Gopalganj*) ; Valmiki Choudhary (Cong.), (*Hajipur*) ; M. S. Oberai (Ind.), (*Hazaribagh*) ; Chandra Sekhar Singh (Com.), (*Jehanabad*) ; Bhogendra Jha (Com.), (*Jainagar*) ; N. T. Das (Cong.), (*Jamui—S.C.*) ; Shiva Chandika Prasad (Cong.), (*Jamshedpur*) ; Sitaram Kesri (Cong.), (*Katihar*) ; Kamla Misra "Madhukar" (Com.), (*Kesaria*) ; Kameshwar Singh (S.S.P.), (*Khagaria*) ; Jaipal Singh (Cong.), (*Khunti—S.T.*) ; Lakhani Lal Kapur (P.S.P.), (*Kishanganj*) ; Kartik Oraon (Cong.), (*Lohardaga—S.T.*) ; B. P. Mandal (Ind.), (*Madhipura*) ; Shiva Chandra Jha (S.S.P.), (*Madhubani*) ; Mrityunjay Prasad (Cong.), (*Maharajganj*) ; Madhu Limaye (S.S.P.), (*Monghyr*) ; Bibhuti Mishra (Cong.), (*Motihari*) ; Digvijaya Narain Singh (Cong.), (*Muzaffarpur*) ; Siddheshwar Prasad (Cong.), (*Nalanda*) ; Dr. Surya Prakash Puri (Ind.), (*Nawada*) ; Kum. Kamla Kumari (Cong.), (*Palamau—S.C.*) ; Ramavatar (Shastri) (Com.), (*Patna*) ; Shashi Rajan (Ind.), (*Pupri*) ; Phani Gopal Sen (Cong.), (*Purnea*) ; Iswar Marandi (Cong.), (*Rajmahal—S.T.*) ; P. K. Ghosh (Cong.), (*Ranchi*) ; Kedar Paswan (S.S.P.), (*Rosera—S.C.*) ; Gunanand Thakur (S.S.P.), (*Saharsa*) ; Yamuna Prasad Mandal (Cong.), (*Samastipur*) ; Jagjivan Ram (Cong.), (*Sasaram—S.C.*) ; Bali Ram Bhagat (Cong.), (*Shahabad*) ; Kolai Birua (Ind.), (*Singbhum—S.T.*) ; Nagendra Prasad Yadav (Cong.), (*Sitamarhi*) ; Mohammad Yusuf (Cong.), (*Siwan*).

GUJARAT—24

Indulal Yajnik (Ind.), (*Ahmedabad*) ; Smt. Jayaben Shah (Cong.), (*Amreli*) ; Narendrasingh Mahida (Cong.), (*Anand*) ; S. K. Patil (*Banaskantha*) ; Pashabhai Patel (Swa.), (*Baroda*) ; Prasannabhai Mehta (Cong.), (*Bhavnagar*) ; M. B. Rana (Cong.), (*Broach*) ; Nanubhai N. Patel (Cong.), (*Bulsar—S.T.*) ; Manubhai Patel (Cong.), (*Dabhoi*) ; R. K. Amin (Swa.), (*Dhandhuka*) ; Bhaljibhai Ravjibhai Parmar (Cong.), (*Dohad—S.T.*) ; S. M. Solanki (Cong.), (*Gandhinagar—S.C.*) ; Piloo Mody (Swa.), (*Godhra*) ; N. Dandekar (Swa.), (*Jamnagar*) ; Viren Shah (Swa.), (*Junagadh*) ; Pravinsinh Natavarsinh Solanki (Swa.), (*Kaira*) ; M. Sheth (Cong.), (*Kutch*) ; C. M. Kedaria (Cong.), (*Mandvi—S.T.*) ; Ramachandra Amin (Swa.), (*Mehsana*) ; Dahyabhai Parmar (Swa.), (*Patana—S.C.*) ; M. R. Masani (Swa.), (*Rajkot*) ; C. C. Desai (Swa.), (*Sabarkantha*) ; Morarji Desai (Cong.), (*Surat*) ; Maharaja Sriraj Megharajji Dhrangadhra (Swa.), (*Surendranagar*).

HARYANA—9

Suraj Bhan (J.S.), (*Ambala—S.C.*) ; Abdul Ghani Dhar (Ind.), (*Gurgaon*) ; Ram Krishna Gupta (Cong.), (*Hissar*) ; Sher Singh (Cong.), (*Jhajjar*) ; G. L. Nanda (Cong.), (*Kaithal*) ; M. R. Sharma (Cong.), (*Karnal*) ; Gajraj Singh Rao (Cong.), (*Mahendragarh*) ; Chaudhari Randhir Singh (Cong.), (*Rohtak*) ; Choudhary Dalbir Singh (Cong.), (*Sirsa—S.C.*).

JAMMU AND KASHMIR—6

Mohamed Shaffi Qureshi (Cong.), (*Anantnag*) ; Syed Ahmad Aga (Cong.), (*Baramulla*) ; Inder J. Malhotra (Cong.), (*Jammu*) ; Kushok Bakula (Cong.), (*Ladakh*) ; G. M. Bakshi (Ind.), (*Srinagar*) ; Dr. Karan Singh (Cong.), (*Udhampur*).

* Speaker has no party affiliation so long as he is in office. Presidential election, the seat has fallen vacant.

Note : Since Mr. Sanjiva Reddy has resigned the speakership to stand for

KERALA—19

P. C. Adichan (Com.), (*Adoor—S.C.*); Smt. Suseela Gopalan (Com.M), (*Ambalapuzha*); Arangil Sreedharan (S.S.P.), (*Badagara*); K. Anirudhan (Com. M), (*Chirayinkil*); V. Viswanatha Menon (Com. M), (*Ernakulam*); A. K. Gopalan (Com. M), (*Kasargod*); K. M. Abraham (Com. M), (*Kottayam*); Ebrahim Sulaiman Sait (Ind.), (*Kozhikode*); M. Mohammad Ismail (Ind.), (*Manjeri*); G. P. Mangalathumadam (S.S.P.), (*Mavelikara*); P. P. Esthose (Com. M), (*Muvattupuzha*); P. Govinda Menon (Cong.), (*Mukundapuram*); E. K. Nayanar (Com. M); (*Palghat*); P. K. Vasudevan Nair (Com.), (*Peermade*); C. K. Chakrapani (Com. M), (*Ponnani—S.C.*); N. Sreekanth Nair (Ind.), (*Quilon*); Pattiam Gopalan (Com. M), (*Tellicherry*); C. Janardhanan (Com.), (*Trichur*); P. Viswambharan (P.S.P.), (*Trivandrum*).

MADHYA PRADESH—37

C. D. Gautam (Cong.), (*Balaghat*); Jhadu Sunder Lal (Ind.), (*Bastar—S.T.*); Narendra Kumar Salve (Cong.), (*Betul*); Yashwant Singh Kushwah (Ind.), (*Bhind*); Jagannathrao Joshi (J.S.), (*Bhopal*); A. S. Saigal (Cong.), (*Bilaspur*); G. S. Mishra (Cong.), (*Chhindwara*); Manibhai J. Patel (Cong.), (*Damoh*); Bharat Singh Chowhan (J.S.), (*Dhar*); V. Y. Tamaskar (Cong.), (*Durg*); J. B. Kripalani (Ind.), (*Guna*); Ram Awtar Sharma (Ind.), (*Gwalior*); Chaudhary Nitiraj Singh (Cong.), (*Hoshangabad*); Prakash Chand Bhanwarlal Sethi (Cong.), (*Indore*); Dr. Govind Das (Cong.), (*Jabalpur*); Smt. Minimata Agam Dass Guru (Cong.), (*Jangir—S.C.*); Sursingh (Cong.), (*Jhabua—S.T.*); Trilokshah Lal Priendra Shah (J.S.), (*Kanker—S.T.*); Gangacharan Dixit (Cong.), (*Khandwa*); Shashi Bhushan (Cong.), (*Khargon*); Vidya Charan Shukla (Cong.), (*Mahasamund*); M. G. Uikey (Cong.), (*Mandla—S.T.*); S. S. Kothari (J.S.), (*Mandsaur*); Atamdas (Ind.), (*Morena—S.C.*); Lakhan Lal Gupta (Cong.), (*Raipur*); Kumari Rajni Devi (Cong.), (*Raigarh—S.T.*); Smt. Padmawati Devi (Cong.), (*Rajnandgaon*); S. N. Shukla (Cong.), (*Rewa*); Ram Singh Agarwal (J.S.), (*Sagar—S.C.*); Devendra Vijay Singh (Cong.), (*Satna*); Smt. Girija Kumari (Cong.), (*Shahdol—S.T.*); Dr. Baburao Patel (J.S.), (*Shahjapur*); Maharaja Bhanu Prakash Singh of Narsinghgarh (Cong.), (*Sidhi*); Babunath Singh (Cong.), (*Suruja—S.T.*); Nathu Ram Aberwar (Cong.), (*Tikamgarh—S.C.*); Hukam Chand Kachwai (J.S.), (*Ujjain—S.C.*); Pandit Shiv Sharma (Ind.), (*Vidisha*).

MAHARASHTRA—45

Anantrao Patil (Cong.), (*Ahmednagar*); K. M. Asghar Husain (Cong.), (*Akola*); K. G. Deshmukh (Cong.), (*Amravati*); B. D. Deshmukh (Cong.), (*Aurangabad*); Tulsidas Jadhav (Cong.), (*Baramati*); Asoka Mehta (Cong.), (*Bhandara*); Nana Ramchandra Patil (Com.), (*Bhir*); Sonubhau Dagadu Baswant (Cong.), (*Bhiwandi*); R. D. Bhandare (Cong.), (*Bombay Central*); S. A. Dange (Com.), (*Bombay Central South*); Smt. Tara Sapre (Cong.), (*Bombay North-East*); Shantilal Shah (Cong.), (*Bombay North-West*); George Fernandes (S.S.P.), (*Bombay South*); S. R. Rane (Cong.), (*Buldana*); K. M. Koushik (Swa.), (*Chanda*); R. M. Hajarnavis (Cong.), (*Chimur*); H. H. Raja Yeshwantrao M. Mukne (Cong.), (*Dahanu—S.T.*); Chudaman Ananda Patil (Cong.), (*Dhulia*); Maharani Vijayamala Rajaram Chhatrapati Bhonsale (P.W.P.), (*Haikanangale*); S. S. Syed (Cong.), (*Jalgaon*); V. N. Jadhav (Cong.), (*Jalna*); D. R. Chavan (Cong.), (*Karad*); Arjun Shripat Kasture (Cong.), (*Khamgaon—S.C.*); R. K. Khadilkar (Cong.), (*Khed*); D. K. Kunte (Ind.), (*Kolaba*); Shankarrao Mane (Cong.), (*Kolhapur*); Annasaheb P. Shinde (Cong.), (*Kopargaon*); Tulsiram Dash-

rath Kamble (Cong.), (*Latur*); Zambru Manglu Kahandole (Cong.), (*Malegaon*); Narendra Ramchandraj Deoghare (Con.), (*Nagpur*); Venkatrao Tarodekar (Cong.), (*Nanded*); Tukaram Hurji Gavit (Cong.), (*Nandurbar*); Bhanudas Ramchandra Kavade (Cong.), (*Nasik*); T. A. Patil (Cong.), (*Osmanabad*); Tayappa Hari Sonavane (Cong.), (*Pandharpur—S.C.*); Shivajirao S. Deshmukh (Cong.), (*Parbhani*); S. M. Joshi (S.S.P.), (*Poona*); Nath Pai (P.S.P.), (*Rajapur*); Dr. A. G. Sonar (Cong.), (*Ramtek*); Smt. Sharda Mukerjee (Cong.), (*Ratnagiri*); Y. B. Chavan (Cong.), (*Satara*); S. D. Patil (Cong.), (*Sangli*); S. R. Damani (Cong.), (*Sholapur*); Kamalnayan Bajaj (Cong.), (*Wardha*); Deorao S. Patil (Cong.), (*Yeatmal*).

MYSORE—27

S. B. Patil (Cong.), (*Bagalkot*); K. Hanumanthaiya (Cong.), (*Bangalore*); M. N. Naghnoor (Cong.), (*Belgaum*); V. K. R. V. Rao (Cong.), (*Bellary*); Ramachander Veerappa (Cong.), (*Bidar—S.C.*); B. K. Gudedinni (Cong.), (*Bijapur*); S. M. Siddayya (Cong.), (*Chamarajanagar—S.C.*); B. Shankaranand (Cong.), (*Chikodi—S.C.*); M. Huche Gowda (P.S.P.), (*Chikmagalur*); J. M. Imam (Swa.), (*Chitradurga*); Dr. Sarojini Mahishi (Cong.), (*Dharwar North*); F. H. Mohsin (Cong.), (*Dharwar South*); Mahadevappa Rampure (Cong.), (*Gulbarga*); Nuggehalli Shivappa (Swa.), (*Hassan*); M. V. Krishnappa (Cong.), (*Hoskote*); Dinkar Desai (P.S.P.), (*Kanara*); M. V. Rajasekharan (Cong.), (*Kanakapura*); G. Y. Krishnan (Cong.), (*Kolar—S.C.*); S. A. Agadi (Cong.), (*Koppal*); Smt. Sudha V. Reddy (Cong.), (*Madhugiri*); S. M. Krishna (P.S.P.), (*Mandya*); C. M. Poonacha (Cong.), (*Mangalore*); Tulsidas Dasappa (Cong.), (*Mysore*); Raja Venkatappa Naik (Swa.), (*Raichur*); J. H. Patel (S.S.P.), (*Shimoga*); K. Lakkappa (P.S.P.), (*Tumkur*); J. M. Lobo Prabhu (Swa.), (*Udipi*).

ORISSA—20

D. N. Deb (Swa.), (*Angul*); Samanendra Kundu (P.S.P.), (*Balasore*); Dharni Dhar Jena (Swa.), (*Bhadrak—S.C.*); A. T. Sarma (Cong.), (*Bhanjanagar*); Chintamani Panigrahi (Cong.), (*Bhubaneshwar*); R. R. Singh Deo (Swa.), (*Bolangir*); Janannath Rao (Cong.), (*Chatrapur*); Srinibas Misra (P.S.P.), (*Cuttack*); Raja Kamakhya Prasad Singh Deo Mahindra Bahadur (Swa.), (*Dhenkanal*); Baidhar Behera (P.S.P.), (*Jaipur—S.C.*); H. H. Maharaja Pratap Keshari Deo (Swa.), (*Kalahandi*); Surendranath Dwivedy (P.S.P.), (*Kendrapara*); G. C. Naik (Swa.), (*Keonjhar—S.T.*); Ramachandra Ulaka (Cong.), (*Koraput—S.T.*); Mahendra Majhi (Swa.), (*Mayurbhanj—S.T.*); Khagapathi Pradhani (Cong.), (*Nowrangpur—S.T.*); Anirudha Dipa (Swa.), (*Phulbani—S.C.*); Rabi Ray (S.S.P.), (*Puri*); S. Supakar (Cong.), (*Sambalpur*); Debananda Amat (Swa.), (*Sundargarh—S.T.*).

PUNJAB—13

Yajna Datt Sharma (J.S.), (*Amritsar*); Kikar Singh (Ind.), (*Bhatinda—S.C.*); Sardar Iqbal Singh (Cong.), (*Fazilka*); Sohan Singh Basu* (Ind.), (*Ferozepore*); Diwan Chand Sharma (Cong.), (*Gurdaspur*); Jai Singh (J.S.), (*Hoshiarpur*); Sardar Swaran Singh (Cong.), (*Jullundur*); Devinder Singh (Cong.), (*Ludhiana*); Smt. Mohinder Kaur (Cong.), (*Patiala*); Chowdhury Sadhu Ram (Cong.), (*Pillaur—S.C.*); Sardar Bhuta Singh (Cong.), (*Rupar—S.C.*); Sardarni Nirlep Kaur (Ind.), (*Sangrur*); G. S. Dhillon (Cong.), (*Tarn Taran*).

RAJASTHAN—23

Bashweshwar Nath Bhargava (Cong.), (*Ajmer*); Bhola Nath Master (Cong.), (*Alwar*); Heerji Bhai (Cong.), (*Banswara—S.T.*); Amrit Nahata (Cong.), (*Barmer*); H. H.

* It is reported that he has resigned from the Lok Sabha.

Maharaj Brijendra Singh of Bharatpur (Ind.), (*Bharatpur*); Ramesh Chandra Vyas (Cong.), (*Bhilwara*); Dr. Karni Singh (Ind.), (*Bikaner*); Onkar Lal Bohra (Cong.), (*Chittorgarh*); Naval Kishore Sharma (Cong.), (*Dausa*); Panna Lal Barupal (Cong.), (*Ganganagar—S.C.*); Jagannath Pahadia (Cong.), (*Hindaun—S.C.*); Maharani Gayatri Devi of Jaipur (Swa.), (*Jaipur*); D. N. Patodia (Swa.), (*Jalore*); Brijraj Singh-Kotah (J.S.), (*Jhalawar*); R. K. Birla (Ind.), (*Jhunjhunu*); N. K. Sanghi (Cong.), (*Jodhpur*); Onkar Lal Berwa (J.S.), (*Kota—S.C.*); N. K. Somani (Swa.), (*Nagaur*); Sunendra Kumar Tapuriah (Swa.), (*Pali*); Meetha Lal Meena (Swa.), (*Sawai Madhopur—S.T.*); S. G. Saboo (J.S.), (*Sikar*); Jamna Lal Barwa (Swa.), (*Tonk—S.C.*); Dhuleshwar Meena (Cong.), (*Udaipur—S.T.*).

TAMIL NADU—39

V. Mayavan (D.M.K.), (*Chidambaram—S.C.*); C. Chittibabu (D.M.K.), (*Chingleput*); K. Ramani (Com. M), (*Coimbatore*); V. Krishnamoorthi (D.M.K.), (*Cuddalore*); C. T. Dhandapani (D.M.K.), (*Dharampuram—S.C.*); N. Anbuechezian (D.M.K.), (*Dindigul*); P. A. Saminathan (D.M.K.), (*Gobichettipalayam*); C. Muthusami (Swa.), (*Karur*); M. Deiveekan (D.M.K.), (*Kallakuruchi*); M. Kamalanathan (D.M.K.), (*Krishnagiri*); Era Sezhiyan (D.M.K.), (*Kumbakonam*); Krishnan Manoharan (D.M.K.), (*Madras North*); Murasoli Maran (D.M.K.), (*Madras South*); P. Ramamurti (Com. M), (*Madurai*); K. Subravelu (D.M.K.), (*Mayuram—S.C.*); S. Kandappan (D.M.K.), (*Mettur*); V. Sambasivam (Cong.), (*Nagapattinam*); K. Kamaraj (Cong.), (*Nagercoil*); M. K. Nanga Gowder (Swa.), (*Nilgiris*); A. Durairasu (D.M.K.), (*Perambalur—S.C.*); H. Ajmal Khan (Swa.), (*Periakulam*); B. Narayanan (D.M.K.), (*Pollachi*); R. Umanath (Com. M), (*Pudukkottai*); S. M. Mohammed Sheriff (Ind.), (*Ramanathapuram*); K. Rajaram (D.M.K.), (*Salem*); Thandavan Kiruttinan (D.M.K.), (*Sivaganja*); S. P. Ramamoorthy (Swa.), (*Sivakasi*); P. Sivasankaran (D.M.K.), (*Sriperumbudur—S.C.*); R. S. Arumugam (Cong.), (*Tenkasi—S.C.*); S. D. Somasundaram (D.M.K.), (*Thanjavur*); T. D. Ramabadra (D.M.K.), (*Tindivanam*); Dr. M. Santosham (Swa.), (*Tiruchendur*); K. Ambazhagan (D.M.K.), (*Tiruchengode*); K. Anandan Nambair (Com. M), (*Tiruchirappalli*); S. Xavier (Swa.), (*Tirunelveli*); R. Muthu Gounder (D.M.K.), (*Tiruppattur*); S. K. Sambandhan (D.M.K.), (*Tiruttani*); G. Kuchelar (D.M.K.), (*Vellore—S.C.*); G. Viswanathan (D.M.K.), (*Wandiwash*).

UTTAR PRADESH—85

Seth Achal Singh (Cong.), (*Agra*); Ramji Ram (Ind.), (*Akbarpur—S.C.*); Shiv Kumar Shastri (Ind.), (*Aligarh*); Hari Krishna (Cong.), (*Allahabad*); J. B. S. Bist (Cong.), (*Almora*); Maulana Ishaq Sambhali (Com.), (*Amroha*); Vidya Dhar Bajpai (Cong.), (*Amethi*); Smt. Savitri Shyam (Cong.), (*Aonla*); Chandrajit Yadava (Cong.), (*Azamgarh*); Raghuvir Singh Shastri (Ind.), (*Baghpat*); K. K. Nayar (J.S.), (*Bahraich*); Atal Bihari Vajpayee (J.S.), (*Balrampur*); Chandrika Prasad (Cong.), (*Ballia*); Jageshwar Yadav (Com.), (*Banda*); Molahu Prasad (S.S.P.), (*Bansgaon—S.C.*); Ram Sewak Yadav (S.S.P.), (*Bara Banki*); Brijbhushan Lal (J.S.), (*Bareilly*); Sheo Narain (Cong.), (*Basti—S.C.*); Swami Ramanand Shastri (Cong.), (*Bijnor—S.C.*); Smt. Sushila Rohatgi (Cong.), (*Bilhaur*); Onkar Singh (J.S.), (*Budaun*); Surendra Pal Singh (Cong.), (*Bulandshahr*); Masuriya Din (Cong.), (*Chail—S.C.*); Nihal Singh (S.S.P.), (*Chandauli*); Yashpal Singh (Ind.), (*Dehra Dun*); Bishwanath Roy (Cong.), (*Deoria*); N. S. Sharma (J.S.), (*Domariaganj*); Rohanlal Chaturvedi (Cong.), (*Etah*); Arjun Singh Bhadoria (S.S.P.), (*Etawah*); Ramkrishna Sinha (Cong.), (*Faizabad*); Awadesh Chandra

Singh (Cong.), (*Farukhabad*); Sant Bux Singh (Cong.), (*Fatehpur*); Shiv Charan Lal (S.S.P.), (*Firozabad—S.C.*); Bhakt Darshan (Cong.), (*Garhwal*); Tula Ram (Cong.), (*Ghatampur—S.C.*); Sarjoo Pandey (Com.), (*Ghaziपुर*); Jharkhande Rai (Com.), (*Ghosi*); Smt. Sucheta Kripalani (Cong.), (*Gonda*); Mahant Digvijay Nath (Ind.), (*Gorakhpur*); Swami Brahmanand (J.S.), (*Hamirpur*); Prakash Vir Shastri (Ind.), (*Hapur*); Kinder Lal (Cong.), (*Hardoi—S.C.*); Nardeo Snatak (Cong.), (*Hathras—S.C.*); Chowdhury Ram Sewak (Cong.), (*Jaluan—S.C.*); Rajdeo Singh (Cong.), (*Jaunpur*); Dr. Sushila Nayar (Cong.), (*Jhansi*); Ghayoor Ali Khan (S.S.P.), (*Kairana*); Smt. Shakuntala Nayar (J.S.), (*Kaisarganj*); S. N. Mishra (Cong.), (*Kannauj*); S. M. Banerjee (Com.), (*Kanpur*); Mushir Ahmad Khan (Cong.), (*Kasganj*); Maj. Ranjeet Singh (J.S.), (*Khalilabad*); Balgovind Verma (Cong.), (*Kheri*); Ram Charan (P.S.P.), (*Khurja—S.C.*); Ram Dhan (Cong.), (*Lalganj—S.C.*); Anand Narain Mulla (Ind.), (*Lucknow*); Nageshwar Dwivedi (Cong.), (*Machhlisahr*); Dr. Mahadeva Prasad (Cong.), (*Maharajganj*); Maharaj Singh (Cong.), (*Mainpuri*); Girraj Saran Singh (Swa.), (*Mathura*); Maharaj Singh Bharti (S.S.P.), (*Meerut*); Bansh Narain Singh (J.S.), (*Mirzapur*); Dr. Sankta Prasad (Cong.), (*Misrikh—S.C.*); Smt. Ganga Devi (Cong.), (*Mohanlalganj—S.C.*); Om Prakash Tyagi (J.S.), (*Moradabad*); Latafat Ali Khan (Com.), (*Muzaffarnagar*); Krishna Chandra Pant (Cong.), (*Nainital*); Kashi Nath Pandey (Cong.), (*Padrauna*); Janeswar Misra (S.S.P.), (*Phulpur*); Mohan Swarup (P.S.P.), (*Pilibhit*); Dinesh Singh (Cong.), (*Pratapgarh*); Smt. Indira Nehru Gandhi (Cong.), (*Rai Bareilly*); Nawabzada Syed Zulfiqar Ali Khan (Swa.), (*Rampur*); Baij Nath Kureel (Cong.), (*Ramsanehighat—S.C.*); Ram Swarup (Cong.), (*Robertsganj—S.C.*); Sunder Lal (Cong.), (*Saharanpur—S.C.*); Shambhu Nath (Cong.), (*Saidapur—S.C.*); Vishwa Nath Pandey (Cong.), (*Salempur*); J. B. Singh (J.S.), (*Shahbad*); Prem Kishan Khanna (Cong.), (*Shahjahanpur*); Sharda Nand (J.S.), (*Sitapur*); Shripat Mishra (B.K.D.), (*Sultanpur*); Lt.-Col. H. H. Maharaja Manabendra Shah of Tehri Garhwal (Cong.), (*Tehri Garhwal*); Krishna Dev Tripathi (Cong.), (*Unnao*); Satya Narain Singh (Com. M), (*Varanasi*).

WEST BENGAL—40

Indrajit Gupta (Com.), (*Alipore*); Amiya Nath Bose (Ind.), (*Arambagh*); Deven Sen (S.S.P.), (*Asansol*); Bhagaban Das (Com. M), (*Ausgram—S.C.*); Jatindra Nath Pramanik (Cong.), (*Balurghat—S.C.*); J. M. Biswas (Com.), (*Bankaura*); Dr. Ranen Sen (Com.), (*Barasat*); Mohammad Ismail (Com. M), (*Barrackpore*); Humayun Kabir (Ind.), (*Basirhat*); Tridib Chaudhuri (Ind.), (*Berhampore*); Anil K. Chanda (Cong.), (*Bholpur*); Dr. Sirir Kumar Saha (Cong.), (*Birbhum—S.C.*); N. C. Chatterjee (Ind.), (*Burdwan*); H. N. Mukerjee (Com.), (*Calcutta North East*); A. K. Sen (Cong.), (*Calcutta North West*); Ganesh Ghosh (Com. M), (*Calcutta South*); Samar Guha (P.S.P.), (*Contai*); Benoy Krishna Daschowdhury (Ind.), (*Cooch-Behar—S.C.*); Dr. (Mrs.) Maitreyee Bose (Ind.), (*Darjeeling*); Jyotirmoy Basu (Com. M), (*Diamond Harbour*); Parimal Ghosh (Cong.), (*Ghatal*); Bijoy Modak (Com. M), (*Hooghly*); Krishna Kumar Chatterjee (Cong.), (*Howrah*); B. N. Katham (Cong.), (*Jalpaiguri—S.T.*); Hazi Lutfal Haque (Cong.), (*Jangipur*); Amiya Kumar Kisku (Ind.), (*Jhargram—S.T.*); Chitta Ranjan Ray (Ind.), (*Joynagar—S.C.*); Dwaipayan Sen (Cong.), (*Katwa*); Smt. Ila Pal Choudhuri (Ind.), (*Krishnanagar*); Smt. Uma Roy (Cong.), (*Malda*); Kansari Halder (Com.), (*Mathurapur—S.C.*); V. K. Krishna Menon (Ind.), (*Midnapore*); Syed Badrudduja (Ind.), (*Murshidabad*); P. R. Thakur (Ind.), (*Nabadwip—S.C.*); Bhajajar, Mahato (Ind.), (*Purulia*); C. K. Bhattacharyya (Cong.), (*Raiganj*); Bimalkanti Ghosh (Cong.), (*Serampore*);

S. C. Samanta (Ind.), (*Tamluk*); Jugal Mondal (Cong.), (*Uluberia*); Dr. P. Mandal (Cong.), (*Vishnupur—S.C.*).

DELHI—7

Ram Gopal Shalwale (J.S.), (*Chandni Chowk*); Kanwar Lal Gupta (J.S.), (*Delhi Sadar*); Hardayal Deygun (J.S.), (*East Delhi*); R. S. Vidyarthi (J.S.), (*Karol Bagh—S.C.*); M. L. Sondhi (J.S.), (*New Delhi*); Chowdhry Brahm Perkash (Cong.), (*Outer Delhi*); Bal Raj Madhok (J.S.), (*South Delhi*).

HIMACHAL PRADESH—6

Vikram Chand Mahajan (Cong.), (*Chamba*); Prem Chand Verma (Cong.), (*Hamirpur*); Hem Raj (Cong.), (*Kangra*); Virbhadra Singh (Cong.), (*Mahasu*); Lalit Sen (Cong.), (*Mandi*); Pratap Singh (Cong.), (*Simla—S.C.*).

MANIPUR—2

M. Meghachandra (Com.), (*Inner Manipur*)†; Paokai Haokip (Ind.), (*Outer Manipur—S.T.*).

TRIPURA—2

H.H. Maharaj Manikya Bahadur of Tripura (Cong.), (*Tripura East—S.T.*); J. K. Choudhury (Cong.), (*Tripura West*).

ANDAMAN AND NICOBAR ISLANDS—1

K. R. Ganesh (Cong.).

LACCADIVE, MINICOY AND AMINDIVI ISLANDS—1

P. M. Sayeed (Ind.).

DADRA AND NAGAR HAVELI—1

Sanjibhai Rupjibhai Delkar (Cong.).

GOA, DAMAN AND DIU—2

Shri Janardhan Jagannath Shinkre (Ind.), (*Panjim*); Erasmo de Sequeira (Ind.), (*Marmugoa*).

NORTH EAST FRONTIER TRACT—1*

D. Ering (Cong.).

RAJYA SABHA

Total No. of seats : 240.

Chairman : Vacant; *Dy. Chairman* : Smt. Violet Alva; *Secretary* : B. N. Banerjee; *Joint Secretary* : S. S. Bhallerao.

An estimate of party position in the Rajya Sabha is : Congress 144; Swatantra 14; Janasangh 10; S.S.P. 9; C.P.I. 8; C.P.I.(M) 4; P.S.P. 5; Independents 8; D.M.K. 3; Muslim League 3; B.K.D. 3; Republican 2; Lok Sevak Dal 1; Akali Dal 1; Forward Bloc 1; Jana Congress 1; R.S.P. 1; S.M.S. 1; Nominated 12; Vacancies 9.

ANDHRA PRADESH—18

M. V. Bhadram; J. C. Nagi Reddy; Mudumala Henry Samuel; Akbar Ali Khan; Smt. Seeta Yudhvir; Kota Punnaiah; Miss M. L. Mary Naidu; M. Anandam; Smt. Yashoda Reddy; J. Chandramouli Jagarlamudi; Yerrapureddi Adinarayana Reddy; M. Srinivasa Reddy; Narla Venkateswara Rao; K. P. Mallikarjunudu; Yella Reddy; K. V. Raghunatha Reddy; D. Sanjivayya; Sanda Narayanappa.

ASSAM—7

Smt. Usha Barthakur; Mahigosh Purakayastha; Baharu Islam; Gopal Barbora; Purnanada Chetia; Sriman Prafulla Goswami; Emonsing M. Sangma.

NAGALAND—1

S. C. Jamir (Cong.).

PONDICHERRY—1

N. Sethuramane (Cong.).

ANGLO-INDIANS—2*

Frank Anthony (Ind.); A. E. T. Barrow (Ind.).

CHANDIGARH—1

Shri Chand Goyal (J.S.).

ESTIMATES COMMITTEE (1969-70)

Chairman : Thirumala Rao; *Members* : K. M. Abraham, S. A. Agadi, B. Anjanappa, R. S. Arumugam, Bedabrata Barua, B. S. Kotah, Dalbir Singh, Hem Raj, H. C. Kachhwai, M. Kamalanathan, B. R. Kavade, H. Ajmal Khan, Samarendra Kundu, K. I. Singh Deo, Masurisa Din, Kartik Oraon, Sarjoo Pandey, Manubhai Patel, Shashi Bhushan, Ramavatar Shastri, Shiv Kumar Shastri, N. Shivappa, Arangil Sreedharan, S. Sujakar, G. G. Swell, K. N. Tewari, G. Thakur, Tula Ram, R. C. Vyas.

PUBLIC ACCOUNTS COMMITTEE (1969-70)

Chairman : A. B. Vajpayee; *Members* : Lok Sabha : Syed Ahmed Aga, Bhagaban Das, C. Chitti Babu, K. G. Deshmukh, Bimalkanti Ghosh, K. M. Koushik, Mohan Swarup, H. N. Mukerjee, Choudhary Nitiraj Singh, Mrs. Sushila Rohatgi, Ram Awatar Sharma, Ramshekhar Prasad Singh, Tayappa Hari Sonavane, Balgovind Verma. Rajya Sabha : Dr. Z. A. Ahmed, A. P. Chatterjee, Prof. Shanti Lal Kothari, S. S. Mariswamy, G. H. V. Momin, N. R. Muniswamy, Tarkeshwar Pande.

PUBLIC UNDERTAKINGS COMMITTEE (1969-70)

Chairman : G. S. Dhillon; *Members* : Lok Sabha : R. K. Amin, Bal Raj Madhok, K. Ananda Nambiar, Vishwa Nath Pandey, T. A. Patil, G. S. Reddi, P. M. Sayed, Digvijaya Narain Singh, G. Vishwanathan. Rajya Sabha : Nand Kishore Bhatt, Godey Murahari, Bhabhani Charan Pattanayak, Rajendra Pratap Sinha and Dattopant Thengari.

BIHAR—22

Suraj Prasad; Chaudhary A. Mohammad; Shyamnandan Mishra; Balkrishna Gupta; Anant Prasad Sharma; Raghunath Prasad Khaitan; Pratul Chandra Mitra; Bhupendra Narayan Mandal; Mahabir Dass; Sheel Bhadra Yajee; Shishir Kumar; Braja Kishore Prasad Sinha; Jagdambi Prasad Yadav; Rajendra Pratap Sinha; Anand Chand; Rama Bahadur Sinha; Lalit Narayan Mishra; Rudra Narayan Jha; Rajendra Kumar Poddar; Awadheshwar Prasad Sinha; Smt. Jahanara Jaipal Singh; Rewati Kant Sinha.

GUJARAT—11

Dr. Biharilal Naranji Antani; Kumari Maniben Vallabh-bhai Patel; Dahyabhai V. Patel; Suresh J. Desai; U. N. Mahida; Smt. Puspaben Janardanrai Mehta; Jaisukhlal Hathi; Khemchandbhai Shomabhai Chavda; Tribhovanand Kishibhai Patel; Gulam Haider Valimohamed Momin; Shamprasad Rupshankar Vasavada.

HARYANA—5

Jagat Narain; Neki Ram; Bhagwat Dayal; Krishna Kant; Rizaq Ram.

† Election held void.

* Nominated by the President.

KERALA—9

C. Achutha Menon; Salay Mohamed Sait; Kizhedath Damodaran; Kesavan Thazhavan; P. Balachandra Menon; B. V. Abdullah Koya, K. Chandrasekharan; K. P. Subramania Menon; G. Gopinathan Nair.

MADHYA PRADESH—16

Syed Ahmad; Pandit Bhawani Prasad Tiwary; Smt. Vidyawati Chaturvedi; Narayan Prasad Chaudhary; Rajya Shankar Pratap Singh; Dayal Das Kurre; Narayanrao Krishna Rao Shejwalkar; Ram Sahai; Shyamukumari Devi; Chakrapani Sukla; A. D. Mani; Nand Kishore Bhatt; Niranjana Varma; Shiv Dutt Upadhyaya; S. S. Sisodia; D. K. Jadhav.

MAHARASHTRA—19

Abid Ali; Dr. (Kum.) Sarojini Krishnarao Babar; Bidse Tukaram Kulkarni; Babubhai M. Chinai; M. C. Chagla; Tryambak Gopal Deshmukh; Vithalrao Tukaram Nagpure; Mohan Manikchand Dharia; Pandharinath Sitaramji Patil; Kodardas Kalidas Shah; Gulabrao Raghunathrao Patil; Shankarrao Bajirao Bobdey; Jayant Shridhar Tilak; Sadashiv Krishna Vaishampayan; Bhaurao Krishnarao Gaikwad; B. D. Khobaragade; B. S. Savnekar; Smt. Vimal Punjab Deshmukh; Arvind Ganesh Kulkarni.

MYSORE—12

M. D. Narayan; Malappa Lingappa Kollur; Smt. Anna-purna Devi Thimmarreddy; Mulka Govinda Reddy; Patil Puttappa M. S. Gurupadaswamy; B. T. Kemparaj; U. K. Lakshmana Gowda; N. Sri Rama Reddy; Sher-khan; Smt. Violet Alva; T. Siddalingayya.

ORISSA—10

Brahmananda Panda; Binoy Kumar Mananti; Bhabani Charan Pattanayak; Narayan Patra; Krishna Chandra Panda; Smt. Nandini Satpathy; Lokanath Misra; Sundar Mani Patel; Banka Behary Das; Bira Kesari Deo.

PUNJAB—7

Narindar Singh Brar; Ratan Lal Jain; Gurcharan Singh Taura; Harcharan Singh Duggal; Sardar Ragbhir Singh Panjhzari; Gurmukh Singh Musafir; Bhupinder Singh.

RAJASTHAN—10

Kumbha Ram Arya; Sundar Singh Bhandari; Devi Singh; Dr. (Mrs.) Mangla Devi Talwar; Sadiq Ali; Shantilal Kothari; Mahindra Kumar Mohta; Dalpat Singh; Ram Niwas Mridha; B. K. Kaul.

TAMIL NADU—18

K. Sundaram; Dr. S. Chandrasekhar; N. R. Muniswamy; S. S. Vasan; G. A. Appan; G. P. Somasundaram;

M. Ruthnaswamy; S. S. Mariswamy; M. R. Venkataraman; N. Ramakrishna Iyer; Smt. Lalitha Rajagopalan; T. V. Anandan; T. Chengalvarayan; R. T. Parthasarathy; A. K. A. Abdul Samad; K. S. Ramaswamy; Thillai Villalan; S. A. Khaja Moideen.

UTTAR PRADESH—34

Smt. Bindumati Devi; Dattopant Thengari; Ganesh Lal Chowdhary; Sukhdev Prasad; Ajit Prasad Jain; C. D. Pande; Pitambar Das; Jogesh Chandra Chatterji; Col. Bashir Husian Zaidi; A. C. Gilbert; Mustafa Rashid Shervani; Jogendra Singh; Tarkeshwar Pande; Prem Manohar; Hayatulla Ansari; Sitaram Jalpura; Smt. Sarla Bhadauria; Ram Singh; T. N. Singh; Umashankar Dikshit; Chandra Sekhar; Prithwi Nath; Rajnarain-Dr. Z. A. Ahmad; Godey Murahari; Hira Vallabha Tripathi; M. Asad Madni; Pt. S. S. Narain Tankha; Mahabir Prasad Shukla; M. P. Bhargava; Arjun Arora; Man Singh Varma; Shyam Dhar Misra; Vacant.

WEST BENGAL—16

Satyendra Prosad Ray; Vacant; A. P. Chatterjee; R. S. Doongar; Biren Roy; Dwijendra Lal Sen Gupta; Bhupesh Gupta; Vacant; Vacant; Chitta Bassu; Dr. Smt. Phulrenu Guha; Muhammad Ishaque; Vacant; Mriganka Mohan Sur; Vacant; Vacant.

JAMMU & KASHMIR—4

Om. Mehta; Gulam Nabi Untoo; Syed Hussain; Tirath Ram Amla.

NAGALAND—1

Melhupra Vero.

DELHI—3

Dr. Bhai Mahavir; Kumari Shanta Vasisht; Inder Kumar Gujral.

HIMACHAL PRADESH—3

C. L. Varma; Dr. Salig Ram; Smt. Satyavati Daug.

MANIPUR—1

Sinam Krishnamohan Singh.

PONDICHERY—1

P. Abraham.

TRIPURA—1

Dr. Triguna Sen.

NOMINATED BY THE PRESIDENT—12

M. Ajmal Khan; Maheshwar Nath Kaul; G. Ramachandran; Jairamdas Daulatram; M. C. Setalvad; Dr. K. Ramiah; Smt. Shakuntala Paranjpye; Ganga Sharan Sinha; Dr. Harbans Raj Bachchan; Joachim Alva; Prof. Saiyid Nurul Hasan; G. Sankara Kurup.

BIHAR VIDHAN SABHA*

Electorate: 2,92,81,772.

Party-wise position of the Assembly is as follows: Congress 117, Samyukta Socialist Party 53, Jan Sangh 34, Praja Socialist Party 12, Communist Party 25, Communist Marxist 3, Independents 22, Janta Party 13, Swatantra 3, Soshit Dal 6; Lok Tantric Congress 9, Hul Jharkhand 7, BKD 6, Forward Bloc 1.

Premchand (Cong.), (*Adapur*); Abu Jafar (Cong.), (*Ajamnagar*); Lal Singh Tyagi (Cong.), (*Akanger Sarai*); Chadar Mumra (Hul Jharkhand), (*Akaripada*); Vidya-

karkavi (Cong.), (*Alamnagar*); Ram Vilas Paswan (S.S.P.), (*Alauli (R)*); Sukh Narain Singh (S.S.P.), (*Amarpur*); Habibur Rahman (P.S.P.), (*Amour*); Avadesh Kumar Singh (S.S.P.), (*Arrah*); Pandav Rai (S.S.P.), (*Arrah*); Shah Johair (C.P.I.), (*Arwal*); Nandkishore Prasad Singh (J.P.), (*Ashthawa*); Babulal Singh (J.S.), (*Atari*); Sarayu Singh (P.S.P.), (*Aurangabad*); Bhuneshwar Ram (Cong.), (*Bachhvara*); Narsingh Baitha (S.C.) (Cong.), (*Bagha (R)*); Imamul Hai Khan (S.S.P.), (*Baghmara*); Dr. Basant Narain Singh (J.P.), (*Bagodar*); Najmuddin (Cong.), (*Bahadurganj*); Shiv Ranjan Khan (Ind.), (*Baharagoda*); Tej Narayan Yadav (Swa.), (*Baheri*); Sheobachan Trivedi

* President's rule was imposed on July 4, 1969. The Assembly has been kept in suspended animation for two months. The position is to be reviewed at the end of two months.

(Cong.), (*Baikunthpur*); Indra Jitendra Narain Singh (Ind.), (*Baisi*); Dharm Veer Singh (Cong.), (*Bakhtiarpur*); Jugul Kishor Sharma (S.C.), (C.P.I.-M.), (*Bakhari (R)*); Uddin Jamal (Cong.), (*Balia*); Ramchandra Mishra (S.S.P.), (*Baniapur*); Takur K. Prasad Singh (Cong.), (*Banka*); Smt. Bhagwati Devi (S.S.P.), (*Barachalli (R)*); Shukur (C.P.I.-M.), (*Barari*); Chandra Sekhar Singh (C.P.I.), (*Barauni*); Bijul Singh (C.P.I.), (*Baroli*); Shiv Shankar Singh (Ind.), (*Barbiga*); Indra Jitendra Narain Singh (J.P.), (*Barh*); Masih Saren (H.J.), (*Barhait (R)*); Sohanlal Jain (Ind.), (*Barsoi*); Mahat Mahadevanand Giri (Ind.), (*Barhora*); Ram Raj Singh (J.S.), (*Barhariya*); Siddheswar Singh (Cong.), (*Barhaiya*); Ram Jeewan Singh (S.S.P.), (*Bariyarpur*); Mahesh Ram (S.C.), (J.P.), (*Barhagaon (R)*); Jag Narayan Trivedi (Cong.), (*Baxor*); Sarayu Singh (Cong.), (*Begusarai*); Chaturbhuj Prasad Singh (S.S.P.), (*Belahar*); Midheleshwar Prasad Singh (Cong.), (*Belaganj*); Ramanand Singh (P.S.P.), (*Belsand*); Vaidyanath Jha (S.S.P.), (*Benipatti*); Harinath Mishra (L.T.C.), (*Benipur*); Bindeshwari Dubey (Cong.), (*Bermo*); Karm Chand Bhagat (S.T.), (Cong.), (*Bero (R)*); Gauri Shankar Pandya (Cong.), (*Betiya*); Chandra Mauli Mishra (J.S.), (*Bhabhua*); B. K. Mitra (J.S.), (*Bhagalpur*); Hemendra Pratap (S.S.P.), (*Bhavnathpur*); Raj Mangal Mishra (Cong.), (*Bhore*); Vijay Kumar Yadav (C.P.I.), (*Bihar*); Prabhu Narain Rai (C.P.I.), (*Bikpur*); Khaderan Singh (B.K.D.), (*Bikram*); Sath Prasad Singh (C.P.I.), (*Bikramganj*); Mahabir Prasad (Soshit Dal), (*Biraul*); Seeta Ram Ranak (S.C.), (S.S.P.), (*Bochahan (R)*); Kali Ram (S.C.) (J.S.), (*Bodhaya (R)*); Sheth Hembhram (S.T.) (H.L.), (*Boriyo (R)*); Surya Narain Sharma (LTC), (*Brahmpur*); Bagum Sumbruyee (S.T.) (Ind.), (*Chaibasa (R)*); Badri Singh (P.S.P.), (*Chainpur*); Srikrishna Singh (S.S.P.), (*Chakai*); Jai Ram (S.C.), (H.L.), (*Chainpur*); Hircharan Soy (S.T.) (Ind.), (*Chakradharpur (R)*); Durga Charan Das (B.K.D.), (*Chandan Kiyari (R)*); Ram Raj Prasad Singh (Cong.), (*Chandi*); Vir Singh (S.S.P.), (*Chanpatia*); Janak Yadav (P.S.P.), (*Chapra*); Kumba Narain Sardar (S.C.) (S.S.P.), (*Chathapur (R)*); Raja K. N. Singh (J.P.), (*Chatra*); Niranjan Prasad Singh (J.P.), (*Chauraparan*); Jagdambi Mandal (S.S.P.), (*Chautham*); Chhathu Ram (S.C.), (Cong.), (*Chenari (R)*); Yaswant Kumar Chaudhury (Swa.), (*Dalsingh Sarai*); Puran Chandra (S.S.P.), (*Daltonganj*); Buddahdev Singh (Cong.), (*Danapur*); Laxman Rawat (S.S.P.), (*Darauti*); Ram Vallabh Jalan (C.P.I.), (*Darbhanga*); Ram Vilas Singh (S.S.P.), (*Daudnagar*); Vaidyanath Das (Cong.), (*Deoghar (R)*); Masudur Rahman (Cong.), (*Dhaka*); Yogendra Prasad Srivastava (P.S.P.), (*Dhanaha*); Puneet Rai (Cong.), (*Dhanbar*); Kalika Prasad Singh (P.S.P.), (*Dhamdaha*); Raghuvamsa Singh (B.K.D.), (*Dhanbad*); Ramanand Prasad Singh (Cong.), (*Dinara*); Sihheswar Mandal (S.C.) (Cong.), (*Dorepa (R)*); Paika Mumru (Cong.), (*Dumka (R)*); Harihar Prasad Singh (Ind.), (*Dumrao*); Paltan Ram (S.C.) (S.S.P.), (*Patepur (R)*); Kanleshwar Das (Cong.), (*Fatuha (R)*); Sarayu Mishra (Cong.), (*Forbesganj*); Gopinath Singh (J.S.), (*Garhwa*); Jaglal Choudhary (Cong.), (*Garkha (R)*); Taneshwar Azad (S.S.P.), (*Ganva (R)*); Gopal Mishra (J.S.), (*Gaya*); Hardeo Narain Singh (Cong.), (*Gaya Muffasil*); Nitishwar Prasad Singh (Cong.), (*Gayghatti*); Rajendra Pratap (Cong.), (*Ghorasahan*); Kaushalendra Narain Singh (Cong.), (*Ghosi*); Chaturaman Mishra (C.P.I.), (*Giridih*); Heman Kumar Jha (S.S.P.), (*Godda*); Avadh Singh (S.S.P.), (*Goh*); Smt. Ram Dulari Devi (Cong.), (*Gopalganj*); Madan Prasad Singh (Cong.), (*Gopalpur*); Bachhan Sharma (S.S.P.), (*Goraul*); Krishna Kant Singh (L.T.C.), (*Goreyakothi*); Harishankar Sharma (J.S.), (*Govindganj*); Y. Kishore Yadav (L.T.C.), (*Govindpur*); Ropna Urao (S.T.) (J.S.), (*Gumla (R)*); Motilal Singh Kanan (Soshit

Dal), (*Hajipur*); Ahmed Shakur (Cong.), (*Harlakhi*); Nageshwar Dutt Patak (Cong.), (*Harsidhi*); Gajendra Prasad Himansha (S.S.P.), (*Hasanpur*); Baleshwar Ram (Cong.), (*Hayaghat*); Raghunandan Prasad (J.P.), (*Hazaribagh*); Jagdish Prasad (J.S.), (*Hilsa*); Satrugan Sharan Singh (Cong.), (*Hiswa*); Bishm Narain Singh (Cong.), (*Hussainabad*); Dhanshyam Mahato (Ind.); (*Ichagarh*); Iswar Das (S.S.P.), (*Imamganj (R)*); Ramsharan Prasad Singh (P.S.P.), (*Islampur*); Mangal Singh Lamai (S.T.), (Ind.), (*Jagannathpur (R)*); Satya Narain Singh (Ind.), (*Jagdishpur*); Harilal Prasad Singh (Soshit Dal), (*Jahanabad*); Rampal Paswan (S.C.) (Cong.), (*Jainagar (R)*); Kumar Kalika Singh (Cong.), (*Jalalpur*); Tej Narayan Rawat (J.S.), (*Jale*); Madan Vesara (Cong.), (*Jama (R)*); Ramwalad Singh (C.P.I.), (*Jamalpur*); Kedar Das (C.P.I.), (*Jamshedpur-East*); Sunil Mukherji (C.P.I.), (*Jamshedpur-West*); Kali Prasad Singh (Cong.), (*Jamtara*); Sadanand Prasad (Cong.), (*Jamua*); Tripurari Prasad Singh (P.S.P.), (*Jamui*); Tulsidas Mehta (S.S.P.), (*Jandaha*); Smt. Shashank Manjari Devi (J.P.), (*Jaridih*); Shrikant (Cong.), (*Jarmundi*); Jowar Hussain (Cong.), (*Jeeradei*); Chandneshwar Singh (Cong.), (*Jhajha*); Rampal Choudhury (S.S.P.), (*Jhanjarpur*); S. K. Rai (B.K.D.), (*Jharia*); Uddin Taslim (Cong.), (*Jokihat*); Sanathan Mamji (S.T.) (Ind.), (*Jugasalai (R)*); Sadanand Singh (Cong.), (*Kahalgaon*); Ram Tahal Choudhury (J.S.), (*Kanke*); Brahma Deo Narain Singh (S.S.P.), (*Kalyanpur*); Harihar Prasad Shahi (L.T.C.), (*Kanti*); Tulsi Singh (S.S.P.), (*Karakat*); Ram Narain Mandal (Cong.), (*Kawa*); Nadhuri Ram Chamar (Cong.), (*Kateya*); Satyanarain Vishwas (L.T.C.), (*Kathihar*); Khan Mohd. Ejaz (*Kesariya*); Hukumdev Narain Yadav (S.S.P.), (*Kevati Renve*); Ram Bahadur Azad (S.S.P.), (*Khagaria*); Narmadeswar Singh Azad (P.S.P.), (*Khajauli*); Shamsher Jang Bahadur Singh (S.S.P.), (*Kharagpur*); Chandra Mohan Mamji (S.T.), (Ind.), (*Kharsam (R)*); Sukhari Urao (S.T.) (J.S.), (*Khijari (R)*); T. M. Roy Munda (S.T.) (Cong.), (*Khoonti (R)*); Alam Rafiq (Cong.), (*Kishnaganj*); Bhushan Prasad Gupta (Cong.), (*Kishanpur*); Viswanath Modi (S.S.P.), (*Kodarma*); Sushil Kumar Bage (Ind.), (*Kolebira (R)*); Ram Vallabh Saran Singh (Ind.), (*Konch*); Bhola Paswan Shastri (L.T.C.), (*Korha*); Suresh Prasad Yadav (Cong.), (*Kothoria*); Nagina Roy (J.P.), (*Kuchaikot*); Sadhusaran Shahi (P.S.P.), (*Kurhani*); Ramkrishna Yadav (Cong.), (*Kumarkhand*); Jagdev Prasad (S.D.), (*Kurtha*); Deep Narain Singh (L.T.C.), (*Lalganj*); Yamuna Singh (S.T.) (J.S.), (*Latehar (R)*); Prayaglal Yadav (C.P.I.), (*Laukaha*); Satru Nardan Sahi (Swa.), (*Lauriya*); Jag Narain Pathak (Cong.), (*Lesaliganj*); Sobh Murmus (H.J.), (S.T.), (*Litipara (R)*); Bihari Lakara (S.T.), (Cong.), (*Lohardaga (R)*); Radha Nandan (Cong.), (*Madhepur*); Bholi Prasad Mandal (Cong.), (*Madhopura*); Bishma Prasad Yadav (Cong.), (*Madhopura*); Suraj Narain Singh (P.S.P.), (*Madhubani*); Bhangeshwar Prasad Rai (Cong.), (*Madhupur*); Sayed Ahmed (C.P.I.), (*Mahagama*); Mahamaya Prasad Sehna (B.K.D.), (*Maharajganj*); Kaleshwar Hembram (S.T.), (H.J.), (*Maheshpur (R)*); Lahtan Chowdhury (Cong.), (*Mahishi*); Ram Charitra Rai (Cong.), (*Mahnar*); Basawan Ram (Cong.), (*Mairava (R)*); Poorna Chandra Virua (S.T.) (Ind.), (*Majhagaon (R)*); Ram Briksha Ram (S.C.) (S.S.P.), (*Majorganj (R)*); Krisha Bhagat (S.T.) (Cong.), (*Mander (R)*); Shaligram Singh (J.P.), (*Mandu*); Nagendra Jha (Cong.), (*Manigachi*); Yuv Raj (P.S.P.), (*Manihari*); Ram Bahadur Singh (S.S.P.), (*Manjhe*); Ratnakar Nayak (S.T.), (*Manoharpur (R)*); Ramdevan Das (J.S.), (*Masaurhi*); Kashinath Rai (P.S.P.), (*Mashrak*); Janak Singh (Cong.), (*Meenapur*); Anant Prasad Singh (Cong.), (*Mirganj*); Bhagwat Prasad Singh (S.C.) (P.S.P.), (*Mohaniya (R)*);

Kapilader Narayan Singh (Ind.), (*Mohiuddin Nagar*); Kameshwar Singh (Cong.), (*Mokama*); Ravish Chandra Varma (J.S.), (*Monghyr*); Ramsevak Jaiswal (Cong.), (*Motihari*); Mahavir Choudhury (Cong.), (*Makhdumpur (R)*); Mahavir Gop (Cong.), (*Mamer*); Kamleshwari Yadav (Cong.), (*Murliganj*); Ramdeo Sharma (C.P.I.), (*Muzaffarpur*); Satyendra Narayan Singh (Cong.), (*Nabinagar*); Viseshwar Khan (C.P.I.), (*Nalla*); Natya Narain Yadav (Cong.), (*Narpatganj*); Chunchun Prasad Yadav (J.S.), (*Nathnagar*); Kedar Pandey (Cong.), (*Nautan*); Keshri Shri Gauri Shankar (J.S.), (*Navda*); Lal Bihari Prasad (S.C.) (C.P.I.), (*Navanagar (R)*); Nimalindu Bhattacharya (C.P.I.), (*Nirsa*); Jagdish Ojha (J.P.), (*Nokha*); Patharadh Singh (P.S.P.), (*Obra*); Chandra Madhav Prasad Singh (Cong.), (*Orai*); Ali Sayed Mohd. Jaffar (Cong.), (*Pakur*); Muhammed Ajeemuddin (Ind.), (*Palasi*); Chandradev Prasad Verma (S.S.P.), (*Paliganj*); Ram Deo Ram (S.C.) (J.S.), (*Ponki (R)*); Daroga Prasad Rai (Cong.), (*Parsa*); Shiv Sharan Singh (S.S.P.), (*Paru*); Jagdambi Prasad Mandal (Cong.), (*Parwata*); Ram Nandan Singh (Cong.), (*Patahi*); Ghan Shyam Manto (Cong.), (*Patamda*); Ram Deo Mahto (J.S.), (*Patna East*); Ram Nandan Singh (Cong.), (*Patna South*); Dr. Ajit Kumar Sen (C.P.I.), (*Patna West*); Ambika Prasad (C.P.I.), (*Peerpaiti*); Dhaniklal Mandal (S.S.P.), (*Phulparas*); Beegu Ram (S.C.), (Cong.), (*Pipara (R)*); Ram Iqbal Singh (S.S.P.), (*Piro*); Edward Maradi (H.J.) (S.T.), (*Poreyahat (R)*); Munshi Choudhury (S.S.P.), (*Punpun (R)*); Ramvriksh Choudhury (J.S.), (*Pupari*); Kamal Deo Narain Singh (Cong.), (*Purnea*); Sahdev Choudhury (S.C.) (J.S.), (*Rafiganj (R)*); Vaidyanath Prasad Mehta (Cong.), (*Raghopur*); Ramvriksh Rai (Cong.), (*Raghopura*); Babulal (S.C.) (J.S.), (*Rajauli*); Yadunandan Prasad (S.C.) (J.S.), (*Rajgir (R)*); Om Prakash Rai (J.S.), (*Rajmahal*); Vilat Paswan (S.C.) (Cong.), (*Rajnagar (R)*); Vishwanath Rai (Cong.), (*Ramgarh*); Agarwal Shri Bodhulal (Cong.), (*Ramgarh*); Narain Vikram Sah (Cong.), (*Ramnagar*); Nani Gopal Mitra (J.S.), (*Ranchi*); Dumarlal Baitha (S.C.) (Cong.), (*Raniganj (R)*); Radha Pandya (Cong.), (*Raxaul*); Sahadeo Mahato (Cong.), (*Rosara*); Bhuneshwar Rai (S.S.P.), (*Runnisaidpur*); Anantiprasad Singh (Cong.), (*Rupauli*); Rajder Ram (S.C.) (P.S.P.), (*Sahar (R)*); Ramesh Jha (Cong.), (*Saharsa*); Yadu-

nandan Singh (Ind.), (*Sahebganj*); Novanelal Mahato (S.C.) (P.S.P.), (*Sakara (R)*); Rajendra Narain Sharma (S.S.P.), (*Samastipur*); Ramji Prasad Singh (J.S.), (*Sandesh*); Ram Bilas Mishra (S.S.P.), (*Sarairanjan*); Vambihari Mahato (Ind.), (*Sarajkela*); Kamaldev Prasad Singh (P.S.P.), (*Saran*); Nalini Kumar Singh (Cong.), (*Sarath*); Vipin Bihari Singh (P.S.P.), (*Sasaram*); Rameshwar Paswan (Cong.), (*Sekundra (R)*); Ramanand Tiwari (S.S.P.), (*Shahpur*); Loknath Mochi (S.C.) (C.P.I.), (*Sheikhpura (R)*); Jai Ram Giri (Ind.), (*Sherbhatti*); Bariyor Hembaram (S.T.) (Cong.), (*Shikaripura (R)*); Sita Ram Prasad (S.C.) (J.S.), (*Shikarpur (R)*); Thakur Girijanandan Singh (B.K.D.), (*Shivahar*); Azam Raiful (Cong.), (*Sikata*); Vrindavan Savasi (S.C.) (S.D.), (*Silli (R)*); Rajdhar Bodh (S.T.) (J.S.), (*Simadega*); Ramchandra Prasad (S.S.P.), (*Simri Baktiarpur*); A. K. Roy (C.P.I.-M.), (*Sindri*); Rameswar Sahu (Cong.), (*Singhia*); Halit Urao (S.T.) (J.S.), (*Sisai (R)*); Shyam Sunderdas (S.S.P.), (*Sitamari*); Janardan Tiwari (J.S.), (*Siwan*); Raj Narain Rai (Cong.), (*Sonbarsa*); Ram Jaipal Singh Yadav (Cong.), (*Sonpur*); Jageshwar Hazra (S.C.) (S.S.P.), (*Sonwarsha (R)*); Ramraksha Prasad Yadav (Cong.), (*Sultanganj*); Badri Narayan (Cong.), (*Sugauli*); Uma Shankar Singh (Cong.), (*Supaul*); Smt. Prativa Devi (Cong.), (*Sursand*); Smt. Sunena Devi (C.P.I.), (*Suryagarh*); Karpuri Thakur (S.S.P.), (*Tajpur*); Anirudha Pathar (S.T.) (J.S.), (*Tamar (R)*); Prabhu Narain Singh (J.P.), (*Taraiya*); Tharini Prasad Singh (S.D.), (*Tarapur*); Mohd. Hussain Azad (Cong.), (*Thakurganj*); Punendra Narain Singh (J.P.), (*Thopchand*); Niraj Aren Horo (S.T.) (Ind.), (*Torpa (R)*); Anup Lal Yadav (S.S.P.), (*Triveniganj*); Gokhuleswar Mishra (Ind.), (*Tundi*); Satyanarain Dudani (J.S.), (*Turadi*); Mohanlal Sharma (S.S.P.), (*Vadhanas*); Laliteswar Prasad Shahi (L.T.C.), (*Vaishali*); Ri Shidev Rasiklal (Cong.), (*Vanmankhi (R)*); Ram Sewak Hajari (S.C.) (S.S.P.), (*Varisnaga (R)*); Sohanlal Jain (Ind.), (*Varsai*); Ram Chandra Prasad (Cong.), (*Varuraj*); Ganga Prasad Srivastava (S.S.P.), (*Vibhutipur*); Raj Kumar Purne (C.P.I.), (*Visapi*); Jageshwar Ram (S.C.), (J.S.), (*Vishrampur (R)*); Devanandan Prasad (C.P.I.), (*Warsaliganj*); Zawar Hussain (Cong.), (*Ziradei*); Nominated: Smt. L. C. Ajiyar.

BIHAR LEGISLATIVE COUNCIL

Seats: 96.

Chairman: Vacant. Deputy Chairman: Theodore Bodra.

Graduates (8)

Ravaneshwar Mishra (Cong.), (*Bhagalpur-cum-Saharsa-cum-Purnea*); Lokesh Nath Jha (Cong.), (*Darbhanga*); Ramashraya Prasad Singh (U.O.), (*Gaya-cum-Shahabad*); Harendra Prasad Jha (Cong.), (*Monghyr-cum-Santal Parganas-cum-Hazaribagh-cum-Dhanbad*); Jagannath Mishra, (*Muzaffarpur-cum-Saran-cum-Champaram*); Ram Ishwar Singh (Cong.), (*Patna*); Purnendu Narain Singh (U.O.), (*Patna*); Anil Kumar Sen (U.O.), (*Randhi-cum-Singhbhum-cum-Palamau*).

Teachers (8)

Vindhyeshwar Mishra (Cong.), (*Bhagalpur-cum-Saharsa-cum-Purnea*); Bag Nath Rai (Cong.), (*Gaya-cum-Sahabad*); Hargauri Tiwari (Cong.), (*Monghyr*); Pragnadev Narayan Sharma (Cong.), (*Patna*); Mahendra Prasad (Cong.), (*Ranchi-cum-Singhbhum-cum-Palamau*); Shivachandra Jha, (*Santal Parganas-cum-Hazaribagh-cum-Dhanbad*); Brinda Prasad Rai "Virendra" (Cong.), (*Tirhut Division*); Kailash Singh (Cong.), (*Tirhut Division*).

Local Authorities (34)

Narayan Prasad Singh (Cong.), (*Bhagalpur*); Shiv Shankar Kanodia (Ind.), (*Champaram*); Smt. Prabhavati Gupta (Cong.), (*Champaram*); Vaidyanath Panjiar (Cong.), (*Darbhanga*); Smt. Kishori Devi (Cong.), (*Darbhanga*); Musay Nayak (Ind.), (*Darbhanga*); Brajmohan Agarwal (Cong.), (*Dhanbad*); Tapeswar Dev, (*Hazaribagh*); Rameshwar Prasad (Cong.), (*Hazaribagh*); Krishna Mohan Pyare Singh (Cong.), (*Monghyr*); Radhakrishna Prasad Singh (Cong.), (*Monghyr*); Raghunath Das (U.O.), (*Muzaffarpur*); Gulzar Prasad (Cong.), (*Muzaffarpur*); Ram Lakhan Pandey (Cong.), (*Palamau*); Devsaran Singh (*Patna-cum-Gaya*); Ramvilas Sharma (Cong.), (*Patna-cum-Gaya*); Smt. Saraswati Devi (Cong.), (*Patna-cum-Gaya*); Kumar Jha (Cong.), (*Patna-cum-Gaya*); Sayed Nazir Hyder (Cong.), (*Patna-cum-Gaya*); Beer Narayan Chand (Cong.), (*Purnea*); Dinesh Kumar Singh (Cong.), (*Purnea*); Ram Ratan Ram (Cong.), (*Ranchi*); Amant Ali (Cong.), (*Ranchi*); Narulla Saheb (Cong.), (*Saharsha*); Prithi Chand Kishku (Cong.), (*Santal Parganas*); Tarachand Daraka, (*Santal Parganas*); Ramanand Singh (Cong.), (*Saran*); Kashinath Gupta (*Saran*); Nageshwar Singh (Cong.), (*Saran*); Indra Kumar (U.O.),

(*Shahabad*); Vishnu Shankar (Ind.), (*Shahabad*); Subodh Kumar Sen (U.O.), (*Singhbhum*); R. N. Rao (*Singhbhum*).

Legislative Assembly (36)

Abdul Ahad Muhamed Noor (Cong.); Abdul Gafoor; Abdul Sami Nadvi (Cong.); Brajmohan Singh (Cong.); Bhola Prasad Singh (S.S.P.); Chandrika Ram (Cong.); Gajendra Prasad Sinha (Cong.); Indradeep Sinha (C.P.I.); Jagannath Sarkar (C.P.I.); Jageshwar Mandal (Cong.); Jageshwar Prasad Khalish (Cong.); Jagannath Singh; Jamuna Prasad Sinha (Cong.); Justin Richard (U.O.); Kishto Kalinath Sahdev (Cong.); Maheshwari Prasad Sinha (Cong.); Mungerilal (Cong.); Pashupati Singh (Cong.); Ramzan Ali; Ram Govind

Singh (Cong.); Rajandhari Sinha (Cong.); Smt. Rajeshwari Saroj Das (Cong.); Ramraj Jaiware (Cong.); Smt. Rampyari Devi (Cong.); Ram Kripal Sinha; Ram Khelwan Singh (Cong.); Ram Sunder Das; Subodh Narain Yadav (Cong.); Shankar Sayal Sinha; Sudhama Mishra (Cong.); Theodore Bodra (Cong.); Upendra Nath Jha (Cong.); Vacant.

Nominated (12)

Smt. Ahmedi Sattar (Cong.); B. P. Sinha (Cong.); Chintamani Saran Nath Sahadev (Con.); Fazlur Rahman (Cong.); Gauri Shankar Dalmia (Cong.); Harman Lakra; Jaydev Prasad; Lady Anis Imam (Ind.); Mathura Prasad Singh (Cong.); Smt. Parwati Devi (Cong.); Shri Kant Thakor Vidyalankari; Vacant.

UTTAR PRADESH LEGISLATIVE ASSEMBLY

Seats : 425 (S.C. 80)—Electorates : 14 million.

Speaker : Jagdish Saran Agarwal; Dy. Speaker : Shripat Mishra.

An estimate of Party position is given below : Congress 212; Bharatiya Kranti Dal 98; Kisan Masdoor Party 1; Hindu Maha Sabha 1; Bharatiya Jansangh 48; Samyakta Socialist Party 33; Praja Socialist Party 3; Swatantra Party 5; Communist Party 4; Communist Party (Marxist) 1; Republic Party 1; Independent 16; Vacant 2; Nominated 1.

Girdharilal (S.C.) (Cong.), (*Afzalgarh*); Jagbir Singh (B.K.D.), (*Agaut*); Devaki Nandan Vibhav (Cong.), (*Agra Cantt.*); Dr. Prakash Narayan Gupta (Cong.), (*Agra East*); Hakum Singh (B.K.D.), (*Agra West*); Paramai Lal (Cong.), (*Ahirouri*); Sukhlal Kouri (S.C.) (Cong.), (*Ajimal*); Priyadarshi Jathali (Cong.), (*Akbarpur*); Om Prakash Singh (B.K.D.), (*Alampur*); Satish Chandra (J.S.), (*Aliganj*); Ahmed Lutkhan (Cong.), (*Aligarh*); Smt. Rajendra Kumari (Cong.), (*Allahabad-North*); Ramgopal Sand (J.S.), (*Allahabad-South*); Habib Ahmed (Ind.), (*Allahabad-West*); Hari Singh (Cong.), (*Almora*); Kesho Ram (Cong.), (*Ambigapur*); Raja Ranamjay Singh (J.S.), (*Ameti*); Smt. Sonbaghyavati (B.K.D.), (*Amroha*); Khajed Singh (Cong.) (*Anupshahar*); Raj Bihari (Cong.), (*Arajeeline*); Shivilal (S.C.) (Cong.), (*Aryangar*); Kalyan Singh (J.S.), (*Atrouli*); Jang Bahadur Singh (Cong.), (*Atraulia*); Nihala Singh (Cong.), (*Aurai*); Chauhan Bharat Singh (B.K.D.), (*Auraiya*); Keshav Ram (Cong.), (*Awala*); Vishwanath Kapoor (Cong.), (*Ayodhya*); Bhima Prasad (S.S.P.); (*Azamgarh*); Durjan (C.P.I.), (*Bareru*); Ram Dulare (Cong.), (*Bachrawan*); Sudama Prasad Goswami (Cong.), (*Babina*); Krishna Swarup (J.S.), (*Badayun*); Navendra Singh (Ind.), (*Badriekedar*); Smt. Saraswati Devi (S.C.) (Cong.), (*Bageshwar*); Ram Charan (S.C.) (Swa.), (*Bah*); Ram Lakham Singh (Cong.), (*Bahadurpur*); Rupnath Singh Yadav (S.S.P.), (*Bahadurpur*); Shafiq Ahmed Khan (B.K.D.), (*Baheri*); Bishanlal (B.K.D.), (*Bahjoi*); Kedarnath (Cong.), (*Bahraich*); Shambunath Choudhury (S.S.P.), (*Baliya*); Maheshwar Datt Singh (Cong.), (*Balrampur*); Mahiraj Singh (Cong.), (*Banda*); Ramkumar Sastri (Cong.), (*Banganga*); Gopinath Dikshit (Cong.), (*Bangarmau*); Chedalal Choudhury (Cong.), (*Bankeganj*); Bacha Patak (Cong.), (*Bansdih*); Madhav Prasad Tripati (J.S.), (*Bansi*); Avadesh Pratap Malla (Cong.), (*Barhaj*); Ashfaq Ahmed (Cong.), (*Bareilly Cantt.*); Ram Singh Khanna (B.K.D.), (*Bareilly City*); Kishanlal (S.C.) (J.S.), (*Barkhera*); Dharmavir Singh (B.K.D.), (*Barnala*); Yadavendra Datta Dubey (J.S.), (*Barsathi*); Smt. Masala Devi (S.S.P.), (*Basgaon*); Smt. Rajendra Kishori (Cong.), (*Basti*); Shirish Chand (Cong.),

(*Bawan*); Subedar Singh (B.K.D.), (*Begaon*); Tej Bahadur (B.K.D.), (*Beesalpur*); Krishna Kant (Cong.), (*Behata*); Sukrw (S.C.) (B.K.D.), (*Beniganj*); Rajendra Singh (B.K.D.), (*Bidhuna*); Ram Nihor (S.C.) (B.K.D.), (*Bhadohi*); Bhagwati Singh Visharat (Cong.), (*Bhagwantnagar*); Banu Pratap Singh (Swa.), (*Bhanwapur*); Balram Singh Yadav (Cong.), (*Bharthana*); Harihamsh (S.S.P.), (*Bhatpara Rani*); Raibahadur Rafekhan (B.K.D.), (*Bhawan*); Chandramani Kant Singh (Cong.), (*Bhinga*); Jwala Prasad Kuril (Cong.), (*Bhoganiapur*); Banu Pratap Singh (Cong.), (*Bhojipura*); Gaya Prasad (S.C.) (S.S.P.), (*Bihar*); Rampal Singh (B.K.D.), (*Bijnor*); Smt. Manwati Devi (Cong.), (*Bikapur*); Sukhpal Pandey (P.S.P.), (*Bikramjoth*); Smt. Kala Rani (Cong.), (*Bilgram*); Motilal Dahalvi (S.C.) (S.S.P.), (*Bilhaur*); Mohamed Asrar (Ind.), (*Binawar*); Pannalal (B.K.D.), (*Bindaki*); Chanchal Singh (Cong.), (*Bilaspur*); Ram Dev (S.S.P.), (*Birapur*); Shivraj Singh (B.K.D.), (*Bisauli*); Kripa Dayal (Cong.), (*Biswan*); Uma Nath (J.S.), (*Biyalasi*); Sarvasukh Singh (B.K.D.), (*Bora*); Shamim Alam (Rep.), (*Buland Shahr*); Kanhyalal Sonkar (S.C.) (J.S.), (*Chaial*); Ram Lakhani (S.C.) (Cong.), (*Chakia*); Nasimuddin (Ind.), (*Chamanganj*); Kamalapati Tripati (Cong.), (*Chandauli*); Smt. Indira Mohini (Cong.), (*Chandausi*); Mahavir Singh (B.P.D.), (*Chandausi*); Kuamvar Shiv Mahindra Singh (B.K.D.), (*Chandpur*); Charan Singh (B.K.D.), (*Chaprauli*); Raja Shrinivas Prasad (Cong.), (*Chanve*); Mahadev Prasad (S.C.) (Cong.), (*Charda*); Chand Narayan Singh (Ind.), (*Charkhari*); Nain Singh (B.K.D.), (*Charthwal*); Tejpal (Cong.), (*Chhata*); Trilok Chand (S.C.) (B.K.D.), (*Chatari*); Ramkumar (Cong.), (*Chaubepur*); Jagdishwar Dayal (Cong.), (*Chibraman*); Jagarnath (Cong.), (*Chilkahar*); Kalpanath Singh (Cong.), (*Chillupur*); Uday Nath (B.K.D.), (*Chiraigaon*); Shivdas (S.S.P.), (*Chunar*); Ramchandra Vikal (U.P. Kisan) (*Dadari*); Rammurthy Anchal (Cong.), (*Dadraul*); Shivshankar Singh (Cong.), (*Dalmau*); Girija Shankar (Cong.), (*Dariyabad*); Triveni Sahay (Cong.), (*Dataganj*); Liladhar (B.K.D.), (*Dayalbag*); Himmat Singh Puthra (J.S.), (*Debai*); Nityanand Swamy (J.S.), (*Dekhra Dun*); Mahavir Singh (Cong.), (*Deoband*); Indramani (Cong.), (*Deo Prayag*); Dup Narayan (B.K.D.), (*Deoriya*); Rampal Singh Yadav (S.S.P.), (*Derapur*); Sattar Ahmed (B.K.D.), (*Dhampur*); Baijnath (B.K.D.), (*Dhanapur*); Jagannath Prasad (Cong.), (*Dhaurahara*); Rampati (S.C.) (S.S.P.), (*Dhuriapur*); Gopal Datt (Cong.), (*Didihat*); Krishnanand Rai (Cong.), (*Dildarnagar*); Minejor Singh (Ind.) (*Doaba*); Ram Pyare (S.C.) (Cong.), (*Dudhi*); Hari Datt (Cong.), (*Dwarahat*); Meharban Singh (Cong.), (*Ekeshwar*); Bhagwanti (S.C.), (*Ekauna*); Ramjiyavan (B.K.D.), (*Esouli*); Ganga Prasad (Cong.), (*Etah*); Hotilal Agarwal (Cong.), (*Etawa*); Rajeshwar Singh

(B.K.D.), (*Faridpur*); Maharam Singh (Cong.), (*Farukhabad*); Vasudev Singh (J.S.), (*Farwarpur*); Hukum Singh (S.S.P.), (*Fatehabad*); Umakant Vajpey (J.S.), (*Fatehpur*); Nathyaram Rawat (S.C.) (Cong.), (*Fatehpur*); Raghunath Singh Puthra (B.K.D.), (*Fatehpur-Sikri*); Ramdhari (S.S.P.), (*Fajilnagar*); Rajaram (Ind.), (*Ferozabad*); Jitendrapal Singh (B.K.D.), (*Gangaswari*); Vijayapal Singh (J.S.), (*Gnyansari*); Anisur Rahman (S.S.P.), (*Gangiri*); Ramlal (Cong.), (*Gauri Bazar*); Smt. Rajpati Devi (Cong.), (*Gauri Gunj*); Ramshiromani (Cong.), (*Garwara*); Atmaram Govind (Cong.) (*Garota*); Beni Singh (Cong.), (*Ghatampur*); Pyarelal (S.S.P.), (*Ghaziabad*); Ram Surat Singh (Cong.), (*Ghaziipur*); Raghubir Singh Yadav (B.K.D.), (*Ghiror*); Ram Bilas (Cong.), (*Ghosti*); Kanhyalal (Cong.), (*Gobardhan*); Chandrapal Azad (B.K.D.), (*Gokul*); Triveni Sahay (J.S.), (*Gonda*); Dal Singh (S.S.P.), (*Gopalpur*); Ramlal Bhai (Cong.), (*Gorakhpur*); Balbir Singh (B.K.D.), (*Gormukteshwar*); Prabhakar Tripathi (Cong.), (*Govindnagar*); Rashipal Singh (J.S.), (*Gunnar*); Banshidhar Pandey (Cong.), (*Gyanpur*); Smt. Hameeda Habibullah (Cong.), (*Hydergarh*); Santu Ram (S.C.) (J.S.), (*Haisa Bazar*); Indralal (S.C.) (Cong.), (*Haldwani*); Pratap Narayan (Cong.), (*Hamirpur*); Ranjit Ram (S.S.P.), (*Hamdiya*); Laxman Swarup (S.C.) (B.K.D.), (*Hapur*); Smt. Asha Singh (Cong.), (*Hardoi*); Shanti Prapanna Sharma (Cong.), (*Hardwar*); Ramlal Rahi (S.C.) (Cong.), (*Hargaon*); Smt. Shakuntala Devi (S.C.) (Cong.), (*Harora*); Lalu (S.C.) (Cong.), (*Harrya*); Sajeewanlal (C.P.I.), (*Hasanganj*); Mahendra Singh (B.K.D.), (*Hasanpur*); Asharam Indu (S.C.) (B.K.D.), (*Hastinapur*); Jai Narayan Singh (Cong.), (*Haswa*); Bankelal (S.S.P.), (*Hata*); Premchand Sharma (Cong.), (*Hathras*); Makhantal (Cong.), (*Hyderabad*); Mrs. Gayatri Devi (B.K.D.), (*Iglas*); Ram Sevak (S.C.) (J.S.), (*Jagdishpur*); Ram Avadh (S.C.) (B.K.D.), (*Jahajirganj*); Shivkumar (Cong.), (*Jaisingpur*); Deo Ram (S.C.) (Cong.), (*Jakhania*); Keshav Chandra Singh (Cong.), (*Jalalabad*); Jagadamba Prasad (Cong.), (*Jalalpur*); Chiranjilal (S.C.) (B.K.D.), (*Jalesar*); Vasishta Narayan Sharma (Cong.), (*Jamaniya*); Ganesh Datt Bajpey (Cong.), (*Janaralgang*); Manful Singh (S.C.) (B.K.D.), (*Jansath*); Raghunath Singh Varma (Cong.), (*Jasrana*); Vishwambar Singh Yadav (Cong.), (*Jaswantnagar*); Jang Bahadur (J.S.), (*Jaunpur*); Dharma Singh (S.C.) (B.K.D.), (*Jewar*); Firangi (S.C.), (B.K.D.), (*Jhangaba*); Dr. Jagmohan Varma (B.K.D.), (*Jhansi*); Jagdish Prasad (S.C.) (Cong.), (*Kadipur*); Chandra Bhan (B.K.D.), (*Kairana*); Bhagauti Singh (Cong.), (*Kaisarganj*); Shrikrishna Bajpey (B.K.D.), (*Kalyanpur*); Shivasampati (Cong.), (*Kalpi*); Abdul Samal Shah (Cong.), (*Kamalganj*); Vasantlal (S.C.) (Cong.), (*Kanch*); Ajab Singh (B.K.D.), (*Kandhala*); Bihari Lal (S.C.) (B.K.D.), (*Kanauj*); Manoharlal (B.K.D.), (*Kanpur Cantt.*); Naunihal Singh (B.K.D.), (*Kanth*); Goswami Radhakrishna (Cong.), (*Karba*); Ramkishore Shukla (Cong.), (*Karchhna*); Sher Singh Danu (J.S.), (*Karna Prayag*); Bhagelu Singh (S.S.P.), (*Karnail Ganj*); Nethram Singh (J.S.), (*Kasaganj*); Narayan Datt Tiwari (Cong.), (*Kashipur*); Shiv Shankar (Cong.), (*Kasimabad*); Shriram Singh (J.S.), (*Katara Bazar*); Bhagwati Prasad Shukla (Cong.), (*Katehari*); Ram Pujan Patel (S.S.P.), (*Kaudihar*); Ramlakhan Shukla (Cong.), (*Kaudiram*); Siyaram Gangwar (Cong.), (*Kayamganj*); Ram Sagar (J.S.), (*Kerakat*); Laxmi Shankar Yadav (Cong.), (*Khutan*); Krishnadatt Urf Balraj (Cong.), (*Khaga*); Mahendra Singh (B.K.D.), (*Khair*); Udit Narayan Sharma (B.K.D.), (*Khajjaha*); Dhanushdhari Pandey (Cong.), (*Khalilabad*); Virendra Varma (B.K.D.), (*Khatauli*); Jagan Prasad Rawat (Cong.), (*Kheragarh*); Raj Bahadur Chand (Cong.), (*Khesraha*); Raghuraj Singh (B.K.D.), (*Khurja*); Indrajit (S.C.) (Cong.), (*Kishnapur*);

Shiv Baran Singh (S.S.P.), (*Kishni*); Manjur Ahmed (S.S.P.), (*Kitaur*); Amarnath Dubey (Cong.), (*Kolastah*); Nagina Singh (S.S.P.), (*Kopachil*); Munshi Lal Chamar (S.C.) (Swa.), (*Korhal*); Puran Chand (S.C.) (B.K.D.), (*Kol*); Jai Ram (S.S.P.), (*Kunda*); Mahilal (B.K.D.), (*Kundarki*); Raj Mangal Pandey (Cong.), (*Kushinagar*); Abid Ali (Cong.), (*Laharpur*); Ghasi Ram (S.C.) (Cong.), (*Lakhana*); Sukhbir (B.K.D.), (*Laksar*); Tej Narayan (Cong.), (*Lakhimpur*); Triveni (Cong.), (*Lalganj*); Bhagwat Dayal (S.C.) (J.S.), (*Lalitpur*); Uday Pratap Singh (J.S.), (*Lammhua*); Chandra Mohan (Cong.), (*Landsdowne*); Vasudev (S.S.P.), (*Laxmanpur*); Ram Lagan Dubey (Cong.), (*Lazmipur*); Sachidanand (B.K.D.), (*Lucknow Cantt.*); Imtiyaz Husein (B.K.D.), (*Lucknow Central*); Vamsha Gopal Sukhla (B.K.D.), (*Lucknow East*); D. P. Bora (B.K.D.), (*Lucknow West*); Choudhury Virendra Kumar (S.C.) (Cong.), (*Machhrehata*); Chitar Singh (Ind.), (*Madhavgarh*); Ganga Prasad (S.C.) (Cong.), (*Mahadeva*); Hamsa (S.C.) (B.K.D.), (*Maharajaganj*); Shyam Sunderlal (Cong.), (*Mahmudabad*); Mohanlal (S.C.) (Cong.), (*Mahoba*); Rampal Trivedi (Cong.), (*Mahona*); Ram Harakh (Cong.), (*Mahashi*); Krishnachand (Cong.), (*Mahroni*); Malikhan Singh (J.S.), (*Mainpuri*); Ram Nihor Ram (S.C.) (J.S.), (*Majhava*); Basantlal (S.C.) (Cong.), (*Malihabad*); Lalan Sharma (Cong.), (*Mallawan*); Smt. Siya Dulari (S.C.) (Cong.), (*Manikhpur*); Avaidyanath (H.M.S.), (*Maniram*); Dharmavir (S.C.) (Cong.), (*Mankanpur*); Anant Singh (Cong.), (*Mankapur*); Laxmiraman Acharya (Cong.), (*Mant*); Jagannath Rao (J.S.), (*Mariahun*); Banarasi (S.C.) (B.K.D.), (*Martinganj*); Mustafa Kamil Kadwai (Ind.), (*Masouli*); Shanticharan Pidara (Cong.), (*Mathura*); Habibur Rahman (B.K.D.), (*Man*); Brijraj Singh (Cong.), (*Maudaha*); Motilal (B.K.D.), (*Machlishahar*); Prem Narayan (S.C.) (J.S.), (*Mauranipur*); Shambhunaryan Singh (C.P.I.), (*Maya*); Mohanlal Kapur (J.S.), (*Meerut*); Uma Datt (Cong.), (*Meerut Cantt.*); Lalsa Prasad (Cong.), (*Mehdawal*); Chhangur Ram (S.C.) (C.P.I.-M.), (*Meh-nagar*); Vishram Das (S.C.) (Cong.), (*Meja*); Deep Narain (Cong.), (*Mujehana*); Vijay Bahadur Singh (J.S.) (*Mirzapur*); Harinath Tiwari (J.S.), (*Mishripur*); Avadesh Kumar (S.S.P.), (*Misrikh*); Badri Prasad (S.C.) (Cong.), (*Miyaganj*); Sher Alikhan (B.K.D.), (*Modinagar*); Uma Shankar Tivari (Cong.), (*Moghalsarai*); Shyamlal (S.S.P.), (*Mohammedabad*); Smt. Vidyavati Rataur (Cong.), (*Mohammedabad*); Seva Ram (S.C.) (Cong.), (*Mohammedi*); Narain Das (Cong.), (*Mohanalganj*); Vijay Shankar Singh (Cong.), (*Mohammedabad*); Alimuddin Rahat (Ind.), (*Moradabad City*); Ryasat Husein (P.S.P.), (*Moradabad Cantt.*); Dharmavir Singh (B.K.D.), (*Murana*); Bhabi (S.S.P.), (*Mubarakpur*); Deepnarayan Ban (Cong.), (*Mujhena*); Ishwar Dayal (B.K.D.), (*Murad Nagar*); Gulab Singh (Cong.), (*Mussoori*); Sardar Singh (B.K.D.), (*Muzaffarabad*); Sayed Murtaja (B.K.D.), (*Muzaffar Nagar*); Ram Singh (S.C.) (Cong.), (*Nagal*); Atikur Rahman (Cong.), (*Nagina*); Doongar Singh (Cong.), (*Naimital*); Kazi Masood (Ind.), (*Nakur*); Paras Nath Singh (J.S.), (*Nanapara*); Harivamsha Prasad (Cong.), (*Naraini*); Lalsa (S.C.) (Cong.), (*Nathupur*); Baijnath (S.C.) (B.K.D.), (*Naurangiya*); Chetram Gangwar (J.S.), (*Nawabganj*); Kumvar Derendra Singh (B.K.D.), (*Naizabad*); Karan Singh (Cong.), (*Nighasan*); Shivkumar (Cong.), (*Nigohi*); Shivanath Singh (B.K.D.), (*Noorpur*); Anantram Jaiswal (S.S.P.), (*Nawabganj*); Ganga Singh (B.K.D.), (*Nidouli Kala*); Chandra Pratap Narain (B.K.D.), (*Padrauna*); Vir Bahadur Singh (Cong.), (*Paniyara*); Tirmal Singh (B.K.D.), (*Patiyali*); Ram Kinkar (S.C.) (B.K.D.), (*Patti*); Shivanand Nawtiyal (Ind.), (*Paudi*); Mrs. Pyari (Cong.), (*Pharenda*); Vamshivar Mishra (Cong.), (*Phool Bahend*); Ramvachan (B.K.D.), (*Phoolpur*); Kanhyalal Valmiki (S.C.) (Cong.),

(*Pihani*); Alizaheer (Cong.), (*Pilibhit*); Dr. Hari Prasad Sahi (Cong.), (*Pipraichi*); Narendra Singh (Cong.), (*Pithoragarh*); Ajit Pratap (Cong.), (*Pratapgarh*); Govind Singh Negi (C.P.I.), (*Pratapnagar*); Shyam Surath (S.S.P.), (*Pratapnagar*); Hari Narain (B.K.D.), (*Puranpur*); Dularelal (S.C.) (Cong.), (*Purwa*); Madan Mohan Mishra (Cong.), (*Rai Bareilly*); Raja Anant (B.K.D.), (*Rajgarh*); Ram Swarup Varma (Ind.), (*Rajpur*); Shesh Narayan Shukla (Cong.), (*Ramnagar*); Mangal Upadhaya (B.K.D.), (*Ramkola*); Nawab Sayed Murtaz Ali Khan (Cong.), (*Rampur*); Tejbhan Singh (S.S.P.), (*Rampur Khas*); Ram Bachan (J.S.), (*Raniki Saray*); Surya Nath (Cong.), (*Rari*); Ram Rattan (S.C.) (Cong.), (*Rasada*); Chandra Bhanu Gupta (Cong.), (*Ranikhet*); Swami Prasad Singh (Cong.), (*Rath*); Ram Prasad (S.C.) (Cong.), (*Rokha*); Subedar Prasad (S.C.) (J.S.), (*Robertsganj*); Ramjilal Sahayak (S.C.) (Cong.), (*Rohata*); J. N. Sinha (Cong.), (*Roorkee*); Mohammed Nabi (B.K.D.), (*Rudauli*); Krishna Magan Singh (Cong.), (*Rudauli*); Ashraf Ali Khan (Cong.), (*Sadabad*); Rajnath (Cong.), (*Sadat*); Gaffar Hashmi (Swa.), (*Sadullanagar*); Ram Kumvar (Cong.), (*Sagadi*); Jagannath Khanna (J.S.), (*Saharanpur*); Ramkaran (P.S.P.), (*Sahjanwa*); Smt. Shanti Devi (B.K.D.), (*Sahswan*); Ramkaran (B.K.D.), (*Saidapur*); Badan Singh (B.K.D.), (*Sakeet*); Shiva Bachan (Cong.), (*Salempur*); Shivaprasad Pandya (S.S.P.), (*Salon*); Mahmud Hasankhan (B.K.D.), (*Sambhal*); Smt. Kudsia Begum (Cong.), (*Sandila*); Jamadar Singh (Cong.), (*Sardhana*); Raghunath Singh (Cong.), (*Sarvankhera*); Guptar Singh (Cong.), (*Sareni*); Vacant, (*Sarojini Nagar*); Upendra Nath (B.K.D.), (*Sarsaul*); Mahmood Ali Khan (Cong.), (*Sarsawa*); Vishwanath

Prasad Singh (Cong.), (*Saron*); Ramprasad Deshmukh (S.C.) (B.K.D.), (*Sansi*); Rajendra Pratap Singh (Cong.), (*Satao*); Sohanlal Drusiya (S.C.) (Cong.), (*Saughat*); Babban (Cong.), (*Seeyar*); Geda Singh (Cong.), (*Seorahi*); Vamshidar (S.C.) (B.K.D.), (*Shahabad*); Raja Harihar (Cong.), (*Shahabad*); Mata Prasad (S.C.) (Cong.), (*Shahganj*); Umashankar Shukla (J.S.), (*Shahjahanpur*); Dharma Datt (Cong.) (*Shergarh*); Mamsha Ram (B.K.D.), (*Shikohabad*); Basantlal Sharma (Cong.), (*Shivpur*); Mahatam (B.K.D.), (*Shyame Deurwa*); Shyamlal Ravat (S.C.) (Cong.), (*Sidhauli*); Shiv Kailas (S.S.P.), (*Sidhaur*); Mumtaz Mohamed Khan (Cong.), (*Sidhana*); Nirbhay Narain Singh (Ind.), (*Sikandarpur*); Virendra Swarup (Ind.), (*Sikandarbad*); Jagdish Gandhi (Ind.), (*Sikandra Rao*); Ram Charan (S.S.P.), (*Sirathi*); Yadvendra Singh Urf (Cong.), (*Sisava*); Dr. Shyam Kishore (Cong.), (*Sitapur*); Ghum Prasad (S.C.) (J.S.), (*Sohawal*); Rampyare Shukla (J.S.), (*Sultanpur*); Rajendra Kumar (J.S.), (*Suartanda*); Ramchandra Azad (B.K.D.), (*Tanda*); Govind Singh (C.P.I.), (*Tehri*); Mohamed Allah Khan (Swa.), (*Thakurdwara*); Shitala Prasad Singh (Cong.), (*Tharabganj*); Mohan Singh (J.S.), (*Thiloi*); Sant Ram (S.C.) (Cong.), (*Tulsipur*); Surendra Vikram (Cong.), (*Tilhar*); Multan Singh (B.K.D.), (*Tundala*); Ram Rattan Pandey (Cong.), (*Umratha*); Anvar Ahmed (B.K.D.), (*Unmav*); Chaturbhuj Sharma (Cong.), (*Urai*); Narotham Singh (Cong.), (*Usehat*); Surajlal (J.S.), (*Utraula*); Krishna Singh (Cong.), (*Uttarkashi*); Lal Bahadur Singh (Cong.), (*Varanasi Cantt.*); Shankar Prasad Jaiswal (J.S.), (*Varanasi North*); Shachindra Nath (J.S.), (*Varanasi South*); Shivpal Singh (B.K.D.), (*Vichiya*).

WEST BENGAL LEGISLATIVE ASSEMBLY

Speaker : B. K. Banerjee.

Deputy Speaker : A. L. Majumdar.

Party Position after Midterm Election, 1969 : Communist Party of India (Marxist) 80 (United Front); Bangla Congress 33 (United Front); Communist Party of India 30 (United Front); Forward Bloc 21 (United Front); Revolutionary Socialist Party 12 (United Front); Samyukta Socialist Party 9 (United Front); Socialist Unity Centre 7 (United Front); Praja Socialist Party 5 (United Front); Gorkha League 4 (United Front); Lok Sevak Sangha 4 (United Front); Workers' Party 2 (United Front); Revolutionary Communist Party of India 2 (United Front); Forward Bloc (Marxist) 1 (United Front); Indian National Congress 55; Progressive Muslim League 3; Indian National Democratic Front 1; Independents — (i) Supported by the United Front 9 (including Speaker) (ii) Other Independents 2; (iii) Nominated under Article 333 of the Constitution 2; Total 282.

Amarendra Nath Roy Pradhan (F.B.), (*Mekliganj (SC)*); Birendra Nath Roy (Cong.), (*Mathabhanga (SC)*); Prasennjit Barman (Cong.), (*Cooch Behar West (SC)*); Dr. Md. Fazle Haque (Cong.), (*Sitai*); Animesh Mukherjee (Cong.), (*Dinhata*); Bimal Kanti Basu (F.B.), (*Cooch Behar North*); Santosh Kumar Roy (Cong.), (*Cooch Behar South*); Akshay Kumar Barma (Cong.), (*Tufanganj (SC)*); Pijush Kanti Mukherjee (Cong.), (*Kumargram*); Denis Lakra (Cong.), (*Kalchini (ST)*); Nani Bhattacharya, (*Minister*) (R.S.P.), (*Alipurduars*); Jagadananda Roy (Cong.), (*Falakata (SC)*); A. H. Besterwitch (R.S.P.), (*Madarihat (ST)*); Anil Dhar Guha Neogi (S.S.P.), (*Dhupguri*); Budhu Bhagat (Cong.), (*Nagrakata (ST)*); Jaineswar Ray (Cong.), (*Mainaguri (SC)*); Antoni Topno (Cong.), (*Mal (ST)*); Nares Chandra Chakravorty (C.P.I.), (*Jalpaiguri*); Kiran Chandra Ray (Cong.), (*Rajganj (SC)*); Padmalakshmi Subba (G.L.), (*Kalimpong*); Deo Prakash Rai

(*Minister*) (G.L.), (*Darjeeling*); Nandlal Gurung (G.L.), (*Jorebunglow*); Prem Thapa (G.L.), (*Siliguri*); Iswar Chandra Tirkey (Cong.), (*Phansidewa (ST)*); Chowdhury Abdul Karim (I.N.D.F.), (*Chopra*); Mohammad Salimuddin (P.S.P.), (*Goalpokhar*); Suresh Chandra Sinha (F.B.), (*Karandighi*); Manash Ray (C.P.I.) (Marx.), (*Raiganj*); Syama Prasad Barman (Cong.), (*Kaliaganj (SC)*); Dr. Zainal Abedin (Cong.), (*Itahar*); Jatindra Mohan Roy (Cong.), (*Kushmandi (SC)*); Ahindra Sarker (C.P.I.) (Marx.), (*Gangarampur*); Abinash Basu (B. Cong.), (*Kumarganj*); Mukul Basu (R.S.P.), (*Balurghat*); Nathaniel Murmu (R.S.P.), (*Tapana (ST)*); Nimai Chand Murmu (C.P.I.), (*Habibpur (ST)*); Lakshan Soren (Cong.), (*Gajol (ST)*); Dr. Golam Yazdani (*Minister*) (Ind.), (*Kharba*); Md. Elias Razi (W.P.), (*Harischandrapur*); Mohammad Ali (C.P.I.) (Marx.), (*Ratua*); Md. Gofurur Rahaman (Cong.), (*Malda*); Bimal Kanti Das (C.P.I.), (*English Bazar*); Arun Chandra Jah (Cong.), (*Manikchak*); Abul Barkat Atawal Ghani Khan Chawdhury (Cong.), (*Suza-pur*); Shamsuddin Ahmad (Cong.), (*Kaliachak*); S. Shahadat Hossain (Cong.), (*Farakka*); Md. Sohorab (Cong.), (*Suti*); Abdul Haque (R.S.P.), (*Jangipur*); Kuber Chand Haldar (Cong.), (*Sagardighi (SC)*); Abdus Sattar (Cong.), (*Lalgola*); Sailendra Nath Adhicary (S.S.P.), (*Bhagabangola*); Birendra Narayan Ray (Ind.) Supported by C.P.I. (Marx.), (*Nabagram*); Mohammad Idris Ali (Cong.), (*Murshidabad*); Azizur Rahman (Cong.), (*Jalangi*); Dr. Md. Ekramul Haque (Cong.), (*Domkal*); Khan Nasiruddin (P.M.L.), (*Naoda*); Ahammad Akta buddin (P.M.L.), (*Hariharpara*); Sanat Kumar Raha (C.P.I.), (*Berhampore*); Muhammed Khuda Bukhsh (Ind.), (*Beldanga*); Kumar Jagadish Chandra Sinha (Ind.), (*Kandi*); Kumarish Chandra Maulick (R.S.P.), (*Khargram (SC)*); Amalendra Lal Roy (R.S.P.), (*Barwan*); Satya Pada Bhattacharyya (R.S.P.), (*Bharatpur*); Dr. Nalinaksha Sanyal (Cong.), (*Karimpur*); Surat Ali Khan

(Cong.), (*Tehatta*); S. M. Fazlur Rahman (Cong.), (*Kaliganj*); Nil Kamal Sarkar (Cong.), (*Nakashipara (SC)*); Salil Behari Mundle (B. Cong.), (*Chapra*); Sachindra Mohon Nandy (Cong.), (*Nabadwip*); Amritendu Mukherjee (C.P.I.), (Marx.), (*Krishnagar West*); Kashi Kanta Maitra (S.S.P.), (*Krishnagar East*); Charumihir Sarkar (Minister), (B. Cong.), (*Hanskhali (SC)*); M. Makshed Ali (R.C.P.I.), (*Santipur*); Gour Chandra Kundu (C.P.I.), (Marx.), (*Ranaghat West*); Nitaipada Sarkar (C.P.I.), (*Ranaghat East (SC)*); Subal Chandra Mandal (B. Cong.), (*Chakdah*); Baksh Mohammed Karim (Ind.), (*Haringhata*); Apurba Lal Majumdar (Dy. Speaker), (F.B.), (*Bagdaha (SC)*); Ajit Kumar Ganguly (C.P.I.), (*Bongaon*); Smt. Parul Saha (B. Cong.), (*Gaighata*); Sadhan Kumar Sen (C.P.I.), (*Ashokenagar*); Saral Deb (F.B.), (*Barasat*); Rabindra Nath Mandal (C.P.I.), (Marx.), (*Rajarhat*); Harun ur Rashid (P.M.L.), (*Deganga*); Tarun Kanti Ghosh (Cong.), (*Habra*); Jamini Ranjan Sen (C.P.I.), (*Swarnupnagar*); Mir Abdu Sayeed (C.P.I.), (Marx.), (*Baduria*); Amiya Bhusan Bandopadhyaya (C.P.I.), (*Basirhat*); Abdur Rezaque Khan (Minister), (C.P.I.), (*Hasnabad*); Hazari Lal Mandal (C.P.I.), (*Hingalganj (SC)*); Ganesh Chandra Mondal (R.S.P.), (*Gosaba (SC)*); Sarat Sardar (C.P.I.), (Marx.), (*Sandeshkhali (ST)*); Brajendra Nath Sarkar (B. Cong.), (*Harora (SC)*); Ashoke Chaudhuri (R.S.P.), (*Basanti*); Narayan Naskar (Cong.), (*Canning (SC)*); Prabodh Purkait (S.U.C.), (*Kultali (SC)*); Subodh Banerjee (Minister), (S.U.C.), (*Joynagar*); Kumud Ranjan Mondal (S.S.P.), (*Baruipur (SC)*); Gangadhar Naskar (C.P.I.), (Marx.), (*Sonarapur (SC)*); A. K. M. Ishaque (Cong.), (*Bhangar*); Bikesh Chandra Guha (C.P.I.), (Marx.), (*Jadavpur*); Niranjana Mukherjee (C.P.I.), (Marx.), (*Behala East*); Rabin Mukherjee (C.P.I.), (Marx.), (*Behala West*); Arun Sen (C.P.I.), (*Garden Reach*); Sudhir Chandra Bhandari (C.P.I.), (Marx.), (*Maheshtola*); Khiti Bhusan Roy Barman (C.P.I.), (Marx.), (*Budge-Budge*); Provash Chandra Roy (Minister), (C.P.I.), (Marx.), (*Bishnupur West*); Sundar Kumar Naskar (C.P.I.), (Marx.), (*Bishnupur East (SC)*); Jyotish Roy (C.P.I.), (Marx.), (*Falta*); Abdul Quiyom Molla (C.P.I.), (Marx.), (*Diamond Harbour*); Radhika Ranjan Pramanik (C.P.I.), (Marx.), (*Magrahat East (SC)*); Sachindra Nath Mandal (B. Cong.), (*Magrahat West*); Murari Mohan Halder (B. Cong.), (*Kulpi (SC)*); Renupada Halder (S.U.C.), (*Mathurapur (SC)*); Rabin Mondal (S.U.C.), (*Patharpratima*); Hansadhwaj Dhara (Cong.), (*Kakdwip*); Dr. Gobardhan Dingal (B. Cong.), (*Sagar*); Jagdish Chandra Das (C.P.I.), (Marx.), (*Bijpur*); Gopal Basu (C.P.I.), (Marx.), (*Naihati*); Sitaram Gupta (C.P.I.), (Marx.), (*Bhatpara*); Jamini Bhuson Saha (C.P.I.), (Marx.), (*Noapara*); Mohammed Amin (C.P.I.), (Marx.), (*Titagarh*); Sadhan Kumar Chakraborty (C.P.I.), (Marx.), (*Kharadah*); Gopal Krishna Bhattacharyya (C.P.I.), (Marx.), (*Panihati*); Radhika Ranjan Banerji (C.P.I.), (Marx.), (*Kumarhati*); Jyoti Basu (Dy. Chief Ministry), (C.P.I.), (Marx.), (*Barangar*); Tarun Kumar Sen Gupta (C.P.I.), (Marx.), (*Dum Dum*); Krishnagopal Basu (C.P.I.), (Marx.), (*Cossipur*); Hemanta Kumar Basu (F.B.), (*Shampukur*); Nepal Chandra Roy (Cong.), (*Jorabagan*); Deokinandan Poddar (Cong.), (*Jorasanko*); Ramkrishna Saraogi (Cong.), (*Barabazar*); Bijoy Singh Nahar (Cong.), (*Bowbazar*); Siddhartha Shankar Ray (Cong.), (*Chowringhee*); Kalimuddin Shams (F.B.), (*Kabitirtha*); Mani Sanyal (C.P.I.), (*Alipore*); Sadhan Gupta (C.P.I.), (Marxist), (*Kalighat*); Bijoy Kumar Banerjee (Speaker), (Ind.), (*Rashbehari Avenue*); Niranjana Sen Gupta (Minister) (C.P.I.), (Marx.), (*Tollygunge*); Somnath Lahiri (Minister) (C.P.I.), (*Dhakuria*); Jyotibhusan Bhattacharya (Minister), (W.P.), (*Ballygunj*); Manaranjan Boral (C.P.I.), (Marx.), (*Belaghata South (SC)*); Dr. Abu Asad Mohammed Obaidul Ghani (C.P.I.), (*Entally*); Abul Hassan (C.P.I.), (Marx.), (*Taltala*); Jatin Chakraborty (Minister), (P.S.P.), (*Seladah*)

Samar Kumar Rudra (C.P.I.), (Marx.), (*Vidyasagar*); Krishnapada Ghosh (Minister), (C.P.I.), (Marx.), (*Belaghata North*); Smt. Ila Mitra (C.P.I.), (*Manicktola*); Nikhil Das (R.S.P.), (*Burtola*); Lakshmi Charan Sen (C.P.I.), (Marx.), (*Belgachia*); Patit Paban Pathak (C.P.I.), (Marx.), (*Bally*); Nirmal Kumar Mukherjee (Cong.), (*Howrah North*); Anadi Das (R.C.P.), (*Howrah Central*); Pralaya Talukdar (C.P.I.), (Marx.), (*Howrah South*); Dr. Kanailal Bhattacharya, (Minister), (F.B.), (*Shibpur*); Joykesh Mukherjee (C.P.I.), (Marx.), (*Domjur*); Tarapada Dey (C.P.I.), (Marx.), (*Jagatballavpur*); Bibhuti Bhushon Ghosh (F.B.), (*Panchla*); Haran Chand Hazara (C.P.I.), (Marx.), (*Sankrail (SC)*); Kalipada Mandal (F.B.), (*Uluberia North (SC)*); Biswanath Das Ghose (F.B.), (*Uluberia South*); Sasabindu Bera (F.B.), (*Shyampur*); Smt. Nirupama Chatterjee (C.P.I.), (Marx.), (*Bagnan*); Dr. Sunil Kumar Mitra (B. Cong.), (*Kalyanpur*); Nitai Bhandari (C.P.I.), (Marx.), (*Amia*); Panna Lal Maji (C.P.I.), (Marx.), (*Udaynarayapur*); Manindra Nath Jana (C.P.I.), (Marx.), (*Jangipara*); Mohammed Abdul Latif (Ind.), (*Chanditala*); Monoranjan Hazra (C.P.I.), (Marx.), (*Uttarpara*); Panchugopal Bhaduri (C.P.I.), (*Serampore*); Haripada Mukherjee (C.P.I.), (Marx.), (*Champdani*); Bhabani Mukherjee (C.P.I.), (Marx.), (*Chandernagore*); Dr. Gopal Bandopadhyaya (C.P.I.), (Marx.), (*Singur*); Amales Chandra Majumdar (S.S.P.), (*Haripal*); Sambhu Charan Ghose (Minister), (F.B.), (*Chinsurah*); Brajo Gopal Neogy (C.P.I.), (Marx.), (*Polba*); Abinash Pramanik (C.P.I.), (Marx.), (*Balagrha (SC)*); Deb Narayan Chakraborty (C.P.I.), (Marx.), (*Pandua*); Kripasindhu Saha (F.B.), (*Dhaniakhali (SC)*); Ram Chatterjee (Minister of State), (F.B.), (Marx.), (*Tarakeswar*); Santi Mohun Roy (Cong.), (*Pursurah*); Madan Mohon Saha (C.P.I.), (Marx.), (*Khanakul (SC)*); Prafulla Chandra Sen (Cong.), (*Arambagh*); Ajit Kumar Biswas (F.B.), (*Goghat (SC)*); Soroshi Choudhury (C.P.I.), (Marx.), (*Chandrakona*); Smt. Nanda Rani Dal (C.P.I.), (Marx.), (*Ghatal (SC)*); Mrigendra Bhattacharjya (C.P.I.), (Marx.), (*Daspur*); Ahindra Misra (B. Cong.), (*Panskura West*); Smt. Geeta Mukhopadhyaya (C.P.I.), (*Panskurat East*); Kanai Bhowmik (Moyna); Ajoy Kumar Mukhopadhyaya (Chief Minister), (B. Cong.), (*Tamluk*); Sushil Kumar Dhara (Minister), (B. Cong.), (*Mahisadal*); Harahari Deb. (Cong.), (*Sutahata (SC)*); Bhupal Chandra Panda (C.P.I.), (*Nandigram*); Subhodh Chandra Maiti (Cong.), (*Narghat*); Smt. Abha Maiti (Cong.), (*Bhagabanpur*); Paresh Das (B. Cong.), (*Khajuri (SC)*); Subodh Gopal Guchhait (P.S.P.), (*Contai North*); Sudhir Chandra Das (Minister), (P.S.P.), (*Contai South*); Balailal Das Mahapatra (Ramanagar); Bibhuti Pahari (P.S.P.), (*Egra*); Biswabrata Roy Chowdhury (B. Cong.), (*Mugheria*); Kamakhya Nandan Das Mahapatra (C.P.I.), (*Patashpur*); Gouranga Samanta (C.P.I.), (*Pingla*); Bijoy Krishna Samanta (Cong.), (*Debra*); Gangapada Kuar (B. Cong.), (*Keshpur (SC)*); Krishna Prasad Duley (C.P.I.), (*Garhbata East (SC)*); Saroj Roy (C.P.I.), (*Garhbata West*); Amulya Ratan Mahata (Cong.), (*Salboni*); Kamakhya Charan Ghosh (C.P.I.), (*Midnapur*); Gyan Singh Sohanpal (Cong.), (*Kharagpur*); Deben Das (C.P.I.), (*Kharagpur Local*); Mihir Kumar Laha (B. Cong.), (*Narayangarh*); Debendra Nath Das (B. Cong.), (*Dantan*); Budhan Chandra Tudu (Cong.), (*Keshiary (ST)*); Jagatpati Hansada (B. Cong.), (*Nayagram (S.T.)*); Dhananjay Kar (S.S.P.), (*Gopiballavpur*); Panchkari De (B. Cong.), (*Jhargram*); Joyram Soren (C.P.I.), (*Binpur (ST)*); Budheswar Majhi (Cong.), (*Banduan (ST)*); Girish Mahato (L.S.S.), (*Manbazar*); Gobardhan Majhi (L.S.S.), (*Balarampur (ST)*); Daman Chandra Kuiri (F.B.), (*Arsha*); Debendra Nath Mahata (Cong.), (*Jhalda*); Ram Krishna Mahato (Cong.), (*Jaipur*); Bibhuti Bhusan Das Gupta (L.S.S.), (*Purulia*); Tinkori Bouri (B. Cong.), (*Para (SC)*); Hari Pada Bauri (S.U.C.), (*Raghunathpur (SC)*); Prabir Kumar Mallik

(C.P.I.), (*Kashipur*); Samarendra Nath Ojha (L.S.S.), (*Hura*); Mohini Mohan Panda (C.P.I.), (Marx.), (*Taldangra*); Bhabatosh Soren (*Minister*) (B. Cong.), (*Raipur (ST)*); Suchand Soren (C.P.I.) (Marx.), (*Ranibandh (ST)*); Gour Lohar (B. Cong.), (*Indpur (SC)*); Sudarson Singh (S.S.P.), (*Chhatna*); Nabadurga Mandal (B. Cong.), (*Gangajalghati (SC)*); Aswini Kumar Raj (C.P.I.), (Marx.), (*Barjora*); Bireswar Ghosh (C.P.I.), (*Bankura*); Anil Kumar Mukherjee (F.B.), (*Onda*); Sasthidas Sarkar (F.B.), (*Vishnupur*); Dr. Niranjana Bhadra (B. Cong.), (*Kotulpur*); Abani Kumar Saha (B. Cong.), (*Indas (SC)*); Sukhendu Khan (C.P.I.), (Marx.), (*Sonamukhi (SC)*); Bama Pada Mookherjee (C.P.I.), (Marx.), (*Hirapur*); Dr. Taraknath Chakraborty (S.S.P.), (*Kulti*); Sunil Basu Ray (C.P.I.), (Marx.), (*Barabani*); Dr. Lokes Ghosh (C.P.I.), (Marx.), (*Asansol*); Haradhan Roy (C.P.I.), (Marx.), (*Raniganj*); Amarendra Mondal (Cong.), (*Jamuria (SC)*); Lakhan Bagdi (C.P.I.), (Marx.), (*Ukhra*); Dilip Kumar Mazumdar (C.P.I.), (Marx.), (*Durgapur*); Monoranjan Bakshi (B. Cong.), (*Faridpur*); Krishna Chandra Halder (*Minister*) (C.P.I.), (Marx.), (*Ausgram (SC)*); Aswini Roy (C.P.I.), (*Bhatar*); Phakir Chandra Roy (Ind.), (*Galsi*); Debabrata Datta (C.P.I.), (Marx.), (*Burdwan North*); Benoy Krishna Chowdhury (C.P.I.), (Marx.), (*Burdwan South*); Gobardhan Pakray (S.S.P.), (*Khandagholi (SC)*); Panchu Gopal Guha (C.P.I.), (Marx.), (*Raina*); Basudeb Malik (B. Cong.), (*Jamulpur (SC)*); Benoy Krishna Konar (C.P.I.), (Marx.), (*Memari*); Hare Krishna Konar (*Minister*), (C.P.I.), (Marx.), (*Kalna*); Syed Abul Mansur Habibullah (C.P.I.), (Marx.), (*Nadanghat*); Kashi-

nath Hazra Choudhury (C.P.I.), (Marx.), (*Manteswar*); Mollah Humayun Kabir (C.P.I.), (Marx.), (*Purbasthali*); Nityananda Thakur (Cong.), (*Katwa*); Nikhilananda Sar (C.P.I.), (Marx.), (*Mangalkot*); Ramgati Mondal (C.P.I.), (Marx.), (*Ketugram (SC)*); Banamali Das (C.P.I.), (Marx.), (*Nanur (SC)*); Pannalal Das Gupta (Ind.), (*Bolpur*); Dr. Rdhanath Chattoraj (C.P.I.), (Marx.), (*Labhpur*); Bhakti Bhusan Mandal (*Minister*), (F.B.), (*Durbrajpur*); Sidheswar Mandal (F.B.), (*Rajnagar (SC)*); Smt. Proviva Mukherjee (*Minister of State*), (S.U.C.), (*Suri*); Dwarika Prosanna Roy (B. Cong.), (*Mahammed Bazar*); Panchanan Let (C.P.I.), (Marxist), (*Mayureswar (SC)*); Sasanka Sekhar Mondal (F.B.), (*Rampurhat*); Mrityunjay Mandal (F.B.), (*Hansan (SC)*); Golam Mahiuddin (Ind.), (*Nalhati*); Bazle Ahmad (S.U.C.), (*Murairai*).

Nominated: Leslie Henry Franklin (Anglo-Indian); Clifford Hicks (Anglo-Indian).

Abbreviations: F.B.: Forward Bloc; Cong.: Indian National Congress; R.S.P.: Revolutionary Socialist Party; S.S.P.: Samyukta Socialist Party; C.P.I.: Communist Party of India; C.P.I. (Marx.): Communist Party of India (Marxist); G.L.: Gorkha League; I.N.D.F.: Indian National Democratic Front; P.S.P.: Praja Socialist Party; B. Cong.: Bangla Congress; Ind.: Independent; W.P.: Workers' Party; P. M. L.: Progressive Muslim League; R.C.P.I.: Revolutionary Communist Party of India; S.U.C.: Socialist Unity Centre; F.B. (M): Forward Bloc, Marxist; L.S.S.: Lok Sevak Sangha.

SOME POLITICAL PARTIES*

AKHIL BHARAT HINDU MAHASABHA

(Hindu Mahasabha Bhawan, Mandir Marg, New Delhi 1.)

THE aim of the Hindu Mahasabha is to establish a really democratic Hindu State in Bharat, based on the culture and tradition of Hindu Rashtra and to re-establish Akhand Bharat by all constitutional means.

The 1967 Election Manifesto was given in the 1967 Directory.

Foreign Policy

On foreign policy, the Sabha stands for befriending all neighbouring Hindu nations such as Nepal, Sikkim, Bhutan, Burma and Ceylon and calls for non-involvement and non-interference in the affairs of other countries.

The manifesto also stands for the liberation of Indian territory from the control of foreign Powers by "all possible means."

The Sabha wants India's withdrawal from the Commonwealth so that India becomes a "really independent country, free from British influence in our internal and external policies."

The Sabha wants the Government to manufacture nuclear weapons for defence purposes "without being bullied by our enemies."

Language Policy

On language, the Sabha stands for resisting all attempts made to dislodge Hindi from the place it has been given in the Constitution as a Union language.

The Sabha wants all administrative work to be conducted in the language which the masses speak.

On Kashmir, the Sabha stands for the abrogation of Article 370 of the Constitution which gives special status to that State.

It also wants the imposition of "effective curbs" on the activities of foreign Christian missionaries.

The Sabha has also promised a ban on cow slaughter.

More details were given in the 1968 Directory.

President: Pt. Brijnarayan Brajesh.

Total membership of Party: 785,000.

* The articles in this section are based on the material provided by the parties themselves.

ALL INDIA FORWARD BLOC

(Central Office, 88, North Avenue, New Delhi.)

Gen. Secretary's Office, Chhindwara, M.P.

Chairman : Hemanta Kumar Bose, M.L.A.

General Secretary : R. K. Haldulkar.

The party advocates the nationalisation of all key industries in the country, equitable redistribution of land with special provision to allot land to the landless peasants, fair wage to the workers, right to strike and full trade union rights to the workers, appointment of a Commission to go into the economic condition of kisans and suggest means of greater production of foodgrains to meet the

deficit, action to vacate aggression of China on the northern frontiers of the country, free education to the students upto the degree level and up-to-date training of our defence forces to meet any aggression from outside.

The Party is opposed to any talks with Pakistan over the Kashmir issue and wants military action to vacate the Pak-occupied portion of Jammu and Kashmir.

The Party has a membership of about 40,000.

BHARATIYA JAN SANGH

(Ajmere Gate, Delhi)

President : Atal Bihari Vajpayee.

Total membership of party in country : more than 25,00,000.

Has branches all over India including NEFA, Tripura & Kashmir.

AIMS AND OBJECTS

Integral Humanism is the ideal. Unitary form of Government by democratic peaceful means. Establishment of Dharma-Rajya i.e. the Rule of Law. Ending all disparities in economic and social structure of the Society.

Kashmir an integral part of India.

No plebiscite in Kashmir; and no special position to Kashmir in the Indian Union : same status as other States. Favours giving high priority to defence; stands for building up an independent nuclear deterrent.

Stands for (1) primary education through the mother tongue, (2) secondary and higher education through the regional language and Hindi as compulsory subject, (3)

making learning of one regional language compulsory for Hindi speaking students, (4) compulsory course of Sanskrit studies, (5) recognition of graduates of Hindi and of other recognised Indian languages as on par with English, (6) autonomy of educational institutions and universities, (7) regional language to be allowed as medium of instruction upto the highest class; (8) Provincial language to be made administrative language in their respective areas; (9) examination of U.P.S.C. through the media of regional languages.

Free and compulsory education at the primary and secondary stages. Free education to poor but deserving students at the higher stages.

Contemplate coordinated development of agriculture, industry, trade & services.

1967 ELECTION MANIFESTO

(Is given in the 1967 Directory).

COMMUNIST PARTY OF INDIA (MARXIST)

(Central Committee Office :

49, Lake Place, Calcutta 29.)

The Communist Party of India (Marxist), is the party of the Indian working class wedded to the ideology of Marxism-Leninism with the aim of building Socialism and Communism in India through the establishment of a People's Democratic State as the first stage.

The Communist Party has today grown to become one of the major opposition parties in the country.

The Party's Programme based on Marxism-Leninism envisages the replacement of the present State and Government by a State of People's Democracy and a Government led by the working class on the basis of a firm worker-peasant alliance.

The Programme lays emphasis on the task of carrying out radical agrarian and other reforms in the interests of the peasantry and includes eradication and summary expulsion of the foreign monopoly capital from our national economy and thus free the economic, political and social life of our people from all its disastrous influences.

The Party is represented in the Lok Sabha, Rajya Sabha and is recognized in the five States of Kerala,

West Bengal, Tamil Nadu, Tripura, and Dadra and Nagar Haveli by the Election Commission.

The structure of the Party is the Branch in the factory, other establishments and villages, with the Local or Town committee above it, then the Taluk Committee, the District Committee with its Secretariat, the State Committee with its Secretariat and the Central Committee with its Polit Bureau.

The Party runs a central English weekly "People's Democracy" and a Hindi weekly "Swadhinta", and has dailies in Kerala (Deshabhimani) West Bengal (Ganasakti and Kisan Mazdur (Urdu) and weeklies in Tamil Nadu (Theekkathir), Karnataka (Aikya Ranga), West Bengal (Desh Hitaishi), Punjab (Lok Lehar) and in Andhra Pradesh (Prajashakti).

Polit Bureau : *General Secretary* : P. Sundarayya; *Members* : E. M. S. Namboodripad; A. K. Gopalan; P. Ramamurti; M. Basavapunniah; B. T. Ranadive; Promode Dasgupta; Jyoti Basu and Harkishan Singh Surjeet.

The 1967 Election Manifesto was given in the 1967 Directory.

COMMUNIST PARTY OF INDIA

(7/4, Asaf Ali Road, New Delhi.)

Chairman : S. A. Dange ; *General Secretary* : C. Rajeswara Rao.

The Policy :

Reorganise administration and services in such a way as to make them subordinate and responsible to popularly elected State organs at all levels.

Grant universal and equal suffrage to all male and female citizens of India who have attained the age of 18 years in elections to Parliament, legislative assemblies and local bodies through secret ballot ; introduce proportional representation in all elections and right of recall of elected representatives by majority of electors.

Abolish second chambers and such reactionary, outdated institutions and practices as the post of State Governors, rule by ordinances, detention without trial and privy purses and other privileges of the princes.

Enforce directive principles of the Constitution like right to work, living wage, free education, social security, etc.

Ensure inviolability of person and domicile, unhampered freedom of conscience, religious belief and worship, speech, press, assembly and organisation, strike and combination, freedom of movement and occupation.

Separate judiciary from the executive. Ensure simpler, cheaper and speedier justice within reach of the common man. Provide free legal aid for poorer sections of population.

Reorganise taxation system and base it on principle of capacity to bear burden.

Introduce state-trading in essential commodities like foodgrains, cloth, etc. and supply them to people at reasonable prices.

National minimum wage should be fixed and workers should be assisted in securing fair wages which should be above the minimum. Sliding scale of D.A., bonus, gratuity and holidays with pay.

Guarantee full trade union and democratic rights.

All land reform measures be implemented with the help of popular committees of accredited representatives of peasants and agricultural labourers. Financial and technical aid also be distributed in a similar way.

Introduce graded land tax based on income, exempting all uneconomic holding from tax.

Organise multipurpose cooperatives to provide cheap credit, seed, manure, pesticides, etc. to peasants and ensure remunerative prices for their products. Provide cheap irrigation facilities ; start agro-industries in the countryside.

Ensure adequate wages and living conditions for agricultural labourers.

More details are given in the previous edition of the Directory.

The 1967 Election Manifesto was given in the 1967 Directory.

INDIAN NATIONAL CONGRESS

(7, Jantar Mantar Road, New Delhi.)

President : S. Nijalingappa.

General Secretaries : Sadiq Ali ; P. Venkata Subbaiah, M.P. ; Dr. S. D. Sharma.

Treasurer : S. K. Patil.

Working Committee : S. Nijalingappa, Mrs. Indira Gandhi, K. Kamaraj, Morarji Desai, Jagjivan Ram, Y. B. Chavan, S. K. Patil, Atulya Ghosh, Fakhruddin Ali Ahmed, Dr. Ram Subhag Singh, C. B. Gupta, Sadiq Ali, Hitendra Desai, C. Subrahmaniam, Mohanlal Sukhadia, V. P. Naik, Brahmananda Reddy, Uma Shankar Dikshit, Dr. S. D. Sharma, P. Venkata Subbaiah, K. C. Abraham.

Central Parliamentary Board : S. Nijalingappa, Smt. Indira Gandhi, Jagjivan Ram, K. Kamaraj, Morarji Desai, S. K. Patil, Y. B. Chavan, Fakhruddin Ali Ahmed.

Central Disciplinary Action Committee : Morarji Desai, Jagjivan Ram, Atulya Ghosh, Y. B. Chavan, Dr. Ram Subhag Singh.

Leader, Congress Party, Parliament : Smt. Indira Gandhi.

Deputy Leaders, Congress Party, Parliament : Bibhuti Mishra (Lok Sabha) ; S. N. Mishra (Rajya Sabha).

Secretaries : S. D. Mishra (Rajya Sabha) ; S. S. Deshmukh and B. Shankaranand (Lok Sabha).

Treasurer : S. R. Damani.

Total membership of Party in country : (1967-68) : Primary : 1,10,41,847 ; Active : 2,08,964.

The Indian National Congress includes the following bodies :

The All-India Congress Committee, the Working Committee, Pradesh or Territorial Congress Committees, District or City Congress Committees, Block Congress Committees and Committees subordinate to the Block Congress Committees to be determined by the Pradesh Congress concerned.

There are 20 Pradesh Congress Committees :

Andhra, Assam, Bihar, Bombay, Delhi, Gujarat, Haryana, Himachal, Jammu & Kashmir, Kerala, Madhya Pradesh, Maharashtra, Mysore, Punjab, Rajasthan, Tamilnad, Utkal, Uttar Pradesh, West Bengal and Tripura.

There are five Territorial Congress Committees :

Goa, Manipur, Nagaland, NEFA and Pondicherry.

The A.I.C.C. also has on it representatives of allied institutions and organizations.

AIMS AND OBJECTS

The object of the Indian National Congress is the well-being and advancement of the people of India and the establishment in India by peaceful and constitutional means of a Socialist State based on Parliamentary Democracy in which there is equality of opportunity and of political, economic and social rights, aiming at world peace and fellowship.

The provision of the basic needs of food, clothing and shelter, and of opportunity for cultural growth for all people.

Full employment should be achieved in ten years.

Belief in a secular State; all citizens to have equal rights; removal of barriers which divide people on the basis of religion, caste, class or region.

Land Reform

Abolition of old and out-dated agrarian systems of tenure; security of tenure and fair rents for tenants and tillers of the soil.

Land reform should be effected quickly, agricultural prices stabilized at a reasonable level and facilities for rural credit greatly enlarged.

There should be a ceiling on holdings.

Co-operative farming; the village as the unit of co-operative management.

Education

Basic education will provide the future pattern of primary as well as secondary education. Primary Schools will be converted to the Basic type in a well-planned manner within ten years.

Multi-purpose schools will be established.

Manual work as part of curriculum of higher education; no degree or diploma without manual work.

The medium of instruction at the primary stage must be the mother tongue. Where the mother tongue of a child is not identical with the regional language instruction in the mother tongue should be made available, provided there is a reasonable number of persons demanding such instruction.

At the secondary stage instruction should ordinarily be in the regional language, though other languages could be used if there is a large enough demand.

At the university stage, the regional language should be the medium, though Hindi and even English could be used as this will facilitate inter-provincial cultural intercourse.

In the teaching of scientific and technical subjects the transition from English to Hindi or the regional language should be gradual.

Hindi should be a compulsory second language at the Secondary stage.

The study of English should be taken up at the secondary school stage and continued at the university.

Progressively, examinations for the all-India services should be held in English, Hindi and the regional languages. Candidates who have chosen Hindi or a regional language should pass separately in English.

Successful non-Hindi candidates should take a test in Hindi at an early stage.

Hindi Prachar Sabhas in the headquarters of every Taluka in the south.

It is desirable for people in Hindi-speaking areas to learn at least one regional language.

Proper representation to minorities in legislatures and other public bodies.

The Congress is committed to prohibition.

Foreign Policy

Independent line in foreign policy; friendly relations with all countries.

India's relations with foreign countries will be governed by the Panch Shila. They should also be the basis of the relations between all nations.

Regional military pacts which happen to serve specific interests of the Great Powers will not promote the cause of peace.

India will not be aligned to any power bloc, and will not take part in other people's wars.

People under colonial rule should be free.

Racialism should end.

More details are given in the previous editions of the Directory.

Cunha Nagar Session

The A.I.C.C. Session at Cunha Nagar, Goa failed to achieve any tangible results, apart from adopting the resolution on prohibition and Gandhi Centenary. The session was held from Nov. 5 to 7, 1968.

Faridabad Session

The 72nd plenary session of the Congress was held at Nekiram Sharma Nagar, Faridabad from April 25 to April 28, 1969. The session ended after adopting the only motion placed before it — the report of the panel on the political situation which ruled out coalitions. It expressed against any amendment of the Constitution for the distribution of power between Centre and the States and rejected suggestions about polarisation of party on the basis of right and left.

PEASANTS AND WORKERS PARTY OF INDIA

(Jyotiba Phule Road, Naigaum, Bombay 14.)

General Secretary : Dajiba Desai.

AIMS AND OBJECTS

To oppose imperialism and all kinds of domination by one country over another and to support the movements for national independence and against racial discrimination, all over the world.

To establish People's Democracy as a first step towards the realisation of the final goal of a socialist society in this country.

To nationalise all key and basic industries and control the industries in the private sector to ensure their management in the interests of the country.

To nationalise Banks and the remaining sectors of the insurance business.

To industrialise the country rapidly and ensure labour participation in management.

To abolish unemployment by rapid industrialisation, decentralisation of industries, balanced industrial development of different regions, provision of technical training promotion of the growth of small-scale and village industries and by increasing the capacity of the existing industries.

To abolish all kinds of feudal relationships in agriculture and introduce co-operative farming.

To guarantee minimum wage to agricultural labour and to distribute surplus and Government lands among them.

To guarantee the right of work and a minimum wage to everybody.

To introduce free and compulsory education upto the age of 14 and to subsidise increasingly secondary and higher education. To provide free technical education.

To abolish untouchability by the economic improvement of the Scheduled Castes and Tribes and other backward communities.

Equal rights to women and the enforcement of the principle of equal pay for equal work.

Total Membership : About 12,000.

PRAJA SOCIALIST PARTY

(18, Windsor Place, New Delhi.)

Chairman : N. G. Goray ; *Dy. Chairman* : Mulka Govinda Reddy, MP ; *General Secretary* : Prem Bhasin ; *Treasurer* : Sanat Mehta, MLA.

Central Parliamentary Board : *Chairman* : H. V. Kamath ; *Leader Lok Sabha Group* : S. N. Dwivedy ; *Leader Rajya Sabha Group* : Mulka Govinda Reddy.

Strength : Lok Sabha 18 ; Rajya Sabha 6. *Assemblies* : Assam 5, Gujarat 3, Tamil Nadu 4, Mysore 23, Orissa 21, M.P. 8.

The PSP stands for greater mobilisation of internal resources through the instrumentality of the State, and demands nationalisation of credit institutions. Planning

will have to continue to accord importance to infrastructure, heavy industry, electronics, oils and chemicals.

The PSP advocates land reforms like conferment of ownership of right of lands of absentee landlords on the tenants, protection against evictions, enforcement of ceiling, distribution of surplus land to small cultivators, substitution of land revenue by graded agricultural tax and encouragement of service and farming co-operatives.

It stands for a national food policy, comprising procurement at remunerative prices, nationalisation of wholesale food trade and scrapping of food zones.

The PSP stands for normalisation of relations with Pakistan.

REVOLUTIONARY SOCIALIST PARTY

(780, Ballimaran, Delhi 6.)

General Secretary, Tridib Kumar Chaudhuri, M.P.

The party is a Marxist Leninist Party and is organized on the principle of democratic centralism. But it is opposed to subservience to the foreign policy of Russia or China.

It believes in the redistribution of land with ceilings, joint cooperative farming and mechanization. It believes in the policy of heavy industrialization, nationalization of all basic industries and of all large-scale organized industries, with private sector limited to small and cottage industries only and their organization on co-operative lines. On China, it condemns the Chinese aggression and supports

the Colombo Proposals as a basis for negotiations between the two countries.

The 1967 Election Manifesto is given in the previous edition of the Directory.

It wants 'regional autonomy' to tribal areas, nationalization of basic and key industries, overhauling of the planning organization and annulment of rural indebtedness.

The party has branches in Assam, West Bengal, Bihar, Uttar Pradesh, Delhi, Rajasthan, Maharashtra, Tamil Nadu and Kerala.

SAMYUKTA SOCIALIST PARTY

(Central Office : Kendra Karyalaya,

179, South Avenue, New Delhi 11.)

Office Bearers : *Chairman* : Karpuri Thakur ; *General Secretary* : George Fernandes.

Central Parliamentary Board : Gopal Gowda (*Chairman*) ; Badrivishal Pitti (*Secretary*).

Leader of the S.S.P. Group in Parliament : Ravi Roy.

AIMS AND OBJECTS

To achieve, by democratic and peaceful means, a socialist society, free from social, political and economic exploitation of man by man and of nation by nation.

The Party is active on the trade union front through the Hind Mazdoor Panchayat, a central organisation of trade unions. On the youth front, it works through the Samajwadi Yuvajan Sabha, while a women's front is being organised through the Samajwadi Mahila Sabha. The Hind Kisan Panchayat organises the small farmers and agricultural labourers.

Some of the details on the 1967 Election Manifesto were given in the 1968 Directory.

SWATANTRA PARTY

(143, Mahatma Gandhi Road, Bombay 1).

President : Prof. N. G. Ranga.

Vice-Presidents : Dr. K. M. Munshi ; Prof. M. Ruthnaswamy ; Smt. Gayatri Devi ; R. N. Singh Deo ; Bhailalbhai D. Patel.

General Secretary : N. Dandeker.

Treasurers : Dr. R. C. Cooper ; H. P. Nanda.

Joint Secretaries : Sundermani Patel ; Krishnamma Choudhary ; *Exec. Secretary* : S. V. Raju.

The Swatantra Party was established in Bombay on August 1 and 2, 1959.

The Swatantra Party is pledged to social justice and equality of opportunity for all people without distinction of religion, caste, occupation or political affiliation.

The Party's Programme of Ordered Progress.

THE COMMON MAN

The Swatantra Party stands, first and foremost, for the common man and for provision of his food, drinking water, clothing and shelter under hygienic conditions through opportunities of gainful employment as the primary concern of Government.

SWATANTRA PARTY

The Swatantra Party believes in building a democracy in which an individual, whether he is a farmer, artisan, shop-keeper or professional, has the fullest opportunity to thrive and grow without any arbitrary restrictions.

AGRICULTURE

The Party is for giving very high priority for agriculture. This will involve *inter alia* the repeal of the 17th Amendment, the acceptance of the right of tenants to a fair rent and security of tenure, the abolition of land revenue, the adequate provision of essential requirements such as credit, water, fertiliser, pesticides, seed and electric power, the provision of increasing incentives to the farmer, the acceptance of his right to the best price he can get for his produce in the free market and guaranteed floor price. The Party stands for the creation of harmonious co-operation among owners, tenants, workers and all others concerned in agricultural production.

The Swatantra Party stands for the removal of all compulsory procurement and all zonal and other barriers to the free movement of agricultural products throughout the country.

The Party will undertake to expand irrigation of cultivable land by a scheme of digging wells whose ownership will be passed on to the *kisans* on payment by instalments spread over a period of years.

The Swatantra Party stands for the protection of landless agricultural workers by insisting upon:

Just and adequate protection of those permanently employed in agriculture and all agricultural labourers; a fair deal for the farmers who employ them; growing opportunities for alternative employment in the countryside through land improvement schemes such as village road-building, drainage, soil conservation and reclamation and small scale rural industries; a drastic reduction in the incidence of indirect taxation and arresting the rising cost of living; provision of free house-sites and drinking water facilities; provision of subsidised building material

for their homes; credit facilities for purchasing livestock and poultry; abolition of hereditary debts and maximum relief from agricultural indebtedness in whatever form.

Large size Government farms, which are a source of recurring loss, and other cultivable Government lands being parcelled out in small holdings and let out to landless agricultural workers.

INDUSTRY AND TRADE

The Swatantra stands for a more balanced development in which small and medium labour-intensive industries have priority over capital-intensive industries with low and slow returns which have so far been favoured.

Until such time as they are able to give a reasonable return on the people's hard earned savings, there should be no further wasteful investment of the tax-payers' money in Government Sector industries which have failed to function effectively. Bokaro must be halted in favour of more fertiliser plants.

The Swatantra Party is opposed to all monopoly, whether in the State or free sector, and will seek to re-establish competition, wherever possible, for the benefit of the consumer. Monopolies, where tolerated, will be subject to essential control.

Labour : The Swatantra Party stands for a fair deal to labour, both industrial and agricultural. The Party accepts the workers' right to organise themselves in order to improve their conditions of life and work. Strong and responsible trade unions managed by the workers themselves are an integral part of a democratic industrial order. The Party stands for the workers' right to collective bargaining involving, where necessary, the right to withdraw their labour.

The Swatantra Party stands for closer association of the workers and the management of industries, so that a spirit of partnership may develop among all those engaged in production.

The Party stands for a good wage for a good day's work.

Planning : The Swatantra Party believes in democratic planning by persuasion and feels that the proposed Fourth Plan should be scrapped.

The Swatantra Party will dissolve the Planning Commission which has become in effect a parallel Government. The principal objective of such planning bodies should be to help Government to plan its own business.

FISCAL AND MONETARY POLICY

The primary need is to provide an Honest Rupee and stable prices through : (a) the abandonment of deficit finance and other inflationary policies and practices, including extravagant and wasteful domestic borrowing, (b) a drastic cut in the wasteful bureaucratic expenditure of the Union and State Governments ; and (c) a substantial reduction in the incidence of direct and indirect taxes.

Banks : The Swatantra Party is opposed to the nationalisation of banks.

Foreign Loans : The Swatantra Party is against extravagant and wasteful borrowings from foreign Governments. The flow of foreign private equity capital coming into the country at its own risk should be encouraged.

Gold Control : Gold control should be entirely abolished.

THE CONSTITUTION AND PUBLIC ADMINISTRATION

The Swatantra Party deploras the repeated Amendments to the country's Constitution, which have resulted in a serious erosion of the fundamental rights of the citizen and pledges itself to restore these rights in the Constitution to their original form at the earliest possible opportunity.

All legislation will be such as respects the rights of the citizen to seek redress in the courts on disputed questions of law.

The Party will give the country clean, honest, impartial and efficient administration.

The highest priority will be attached to the restoration of law and order.

Justice should be speedy and inexpensive.

In order to check corruption and the arbitrary infringement of the rights of the citizens, the Party will continue to press for the establishment of an independent authority at the Centre and in the States on the lines of the Ombudsman in Scandinavian countries to investigate into the grievances of citizens and any administrative vagaries or injustices and to give due redress and other suitable authority for justice in regard to nonjusticiable executive decisions.

The Party stands for the satisfactory rehabilitation of ex-servicemen and their families.

The Party stands for a revision of the scales of pensions paid to retired low-grade government servants in line with the sharp rise in the cost of living.

Electoral Reform : The Swatantra Party stands for a reform of the electoral system which would : (a) reduce the influence of money power and the expenses to be incurred by candidates ; and (b) evolve a system such as would result in fairly representing the will of the electorate in Parliament and State Legislatures and reducing, if not ending, the distortion that is to be found in the composition of the present Lok Sabha and many State Assemblies.

INTERNATIONAL RELATIONS AND DEFENCE

The Party stands for a more imaginative policy towards the peoples on our borders so as to help the defence of the country as a whole and strengthen the bonds between us.

The Party stands pledged to a firm and vigilant policy in dealing with Communist China and for active steps to end its aggression and to reoccupy Indian territory in its possession at the earliest possible moment. The Party stands for the liberation of Tibet and for the recognition of the Dalai Lama as the Head of the Government of Tibet in exile.

It is of the view that Pakistan aggression last year has deprived Pakistan of whatever *locus standi* it might have had in regard to the Kashmir problem.

EDUCATION

The Party will ; (a) Introduce in education a spiritual element alongside of the humanities and sciences in order to provide an adequate background of human values and

national unity for the citizen of the future (b) ; provide free scope and encouragement to voluntary agencies to impart moral and religious instruction to the young without forcing any such instruction on sections belonging to other denominations.

The Party stands for : (a) raising the quality of education in primary schools which should be the direct responsibility of State Governments ; (b) raising the status and remuneration of the teaching profession ; (c) the rejection of measures like the nationalisation of textbooks calculated to indoctrinate the younger generation ; (d) the vindication of the Fundamental Right of the citizen to educate his children according to his choice in an atmosphere untrammelled by official directives ; and (e) the autonomy of Universities and other educational institutions.

Swatantra Party would equip schools and educational institutions with adequate laboratory and workshop facilities.

RELIGION

The Swatantra Party will do everything possible to restore religion to its legitimate place in life and in particular : (a) ensure respect for all communities in regard to their religious institutions and practices ; (b) secure for each religion the autonomous management and the full benefit of its endowed and other properties without interference from Government, and (c) make incomes and properties of and donations to religious institutions and charities, tax free.

Minorities and Backward Classes : (a) The Party will more faithfully and effectively carry out the provisions of the Constitution for the protection of the rights and interests of Muslims, Christians, Sikhs and other minorities including linguistic minorities, and of those who work under economic and social handicaps such as Harijans, Adivasis and other Backward Classes, who shall be listed, irrespective of their religion. The total eradication of untouchability will be actively pursued.

(b) The Party will not look upon an association for the protection of the rights of any class or community as a communal organisation to be discouraged or banned.

Linguism is now becoming a separatist force and a protective cover for those in power in the States to reduce all minorities to the position of second class citizens. The Swatantra Party will take steps to halt this deterioration.

PRESS

The Party will do everything possible to sustain the independence of the Press against all attempts to bring it under the influence of the Party in office.

OTHER IMPORTANT PARTIES

The other important political parties in the country are :—

(1) The Dravida Munnetra Kazhagam of Tamil Nadu, with headquarters at Arivagam, Madras 13, the Republican Party of India with headquarters at Gandhi Road, Chanda and the Akali Dal of Punjab. The D. M. K. has majority in Tamil Nadu and has formed the Ministry there. The Akali Dal with the Jana Sangh has formed the Ministry in Punjab.

SPORTS

The sports come within the purview of the Ministry of Education.

An advisory body, called the All India Council of Sports, composed of 20 persons eminent in the field of sports and games advises the Ministry in all matters relating to development of Sports in the country.

The All India Council of Sports has as its President Ram Niwas Mirdha, M.P. and as Secretary A. B. Chandiramani.

The Government of India have set up a National Institute of Sports at Patiala to provide adequate facilities for the training of coaches of the highest calibre in various games and sports.

TOURNAMENTS

Below we give the results of the national tournaments and principal sporting events of the year 1968-69 :

Athletics

Men's Events

100 metres : A. R. Ramaswamy (Mysore) ; 200 metres : B. Thomas (Punjab) ; 400 metres : Harbail Singh (Punjab) ; 1,500 metres : Edward Sequeira (Maharashtra) ; 3,000 metres steeple chase : Mukhtiar Singh (Punjab) ; 5,000 metres : Edward Sequeira (Maharashtra) ; 10,000 metres : Nafe Singh (Haryana) ; 110 metres hurdles : Durgapal Singh (Rajasthan) ; 400 metres hurdles : Durgapal Singh (Rajasthan) ; Long Jump : K. S. Alva (Mysore) ; High Jump : Bhim Singh (Haryana) ; Hop, step and jump : Labh Singh (U.P.) ; Pole Vault : W. A. Naquir (Bihar) ; Javelin Throw : Pritam Singh (Punjab) ; Discus Throw : Praveen Kumar (Punjab) ; Shot Put : Joginder Singh (Andhra) ; Hammer Throw : Praveen Kumar (Punjab) ; 4 × 100 metres relay : Bengal ; 4 × 400 metres relay : Bengal ; 50 kilometres walk : Kishen Singh (Punjab) ; Marathon : Harnek Singh (Punjab) ; Decathlon : S. Puttur (Maharashtra).

Women's Events

100 metres : Alka Dighe (Maharashtra) ; 200 metres : Nirmala Uthaiiah (Mysore) ; 400 metres : Pushpa (M.P.) ; 800 metres : Neena Chopra (Punjab) ; 4 × 100 metres relay : Maharashtra ; Pentathlon : K. M. Rosama (Tamil Nadu) ; High Jump : L. Gomez (Tamil Nadu) ; Javelin Throw : V. R. Many (Tamil Nadu).

Aquatics

Men

100 metres freestyle : K. N. Roy (Services) ; 100 metres backstroke : Chand Ram (Services) ; 100 metres breaststroke : Ramdeo Singh (Services) ; 100 metres butterfly : A. L. Sarang (Railways) ; 200 metres freestyle : Joseph D'Cruz (Services) ; 200 metres backstroke : Chand Ram (Services) ; 200 metres breaststroke : Ramdeo Singh (Services) ; 200 metres butterfly : Wassan Singh (Services) ; 400 metres freestyle : Joseph D'Cruz (Services) ; 1,500 metres freestyle : Jagat Aich (Bengal) ; 4 × 100 metres freestyle relay : Services ; 4 × 200 metres freestyle relay : Services ; 4 × 100 metres medley relay : Services ; 400 metres individual medley : K. K. Kutty Nair (Services) ; High Board Diving : Bhanvar Singh (Services) ; Spring Board Diving : Hardayal Singh (Services) ; Water Polo : Railways.

Women

100 metres freestyle : Rima Dutta (Rajasthan) ; 100 metres backstroke : Rima Dutta (Rajasthan) ; 100 metres breaststroke : D. Solanki (Maharashtra) ; 100 metres butterfly : K. Malone (Delhi) ; 200 metres freestyle : Rima Dutta (Rajasthan) ; 400 metres freestyle : Rima Dutta (Rajasthan) ; 4 × 100 metres freestyle relay : Delhi ;

4 × 50 metres individual medley : A. Milos (Maharashtra) ; Spring Board Diving : M. Bhargava (Rajasthan).

Badminton

Men's Singles : Satish Bhatia ; Men's Doubles : Romen Ghosh and C. D. Deoras ; Mixed Doubles : Romesh Ghosh and Mrs. Malati Vaidya ; Women's Singles : Damayanti Subedar ; Women's Doubles : Damayanti Subedar and J. Phillips ; Juniors' Singles : Asif Parpia ; Inter-State Championship — *Men* : Punjab ; *Women* : Maharashtra ; *Juniors* : Maharashtra.

Basketball

Men's : Railways ; *Women's* : Maharashtra ; *Juniors* : Maharashtra.

Billiards

Billiards : Satish Mohan.

Snooker : Satish Mohan.

Boxing

Light-fly : Hav. Mohan Singh (Services) ; Fly : Hav. M. B. Thappa (Services) ; Bantam : Hav. P. Jadhav (Services) ; Feather : Hav. D. Swamy (Services) ; Light : L/Hav. K. Raman (Services) ; Light-welter : Rec. M. K. Rai (Services) ; Welter : Hav. S. Bose (Services) ; Light-middle : Bhawan Singh (Services) ; Heavy : Nb. Sub. Hawa Singh (Services).

Bridge

Team-of-four duplicate : Dr. Narang's team (Delhi) ; Dr. Narang, J. Kohli, H. Verma, P. L. Soni, B. Kumar and H. S. Verk. Master Pairs : Shanti Patel and S. Ghosh (Calcutta).

Cricket

Ranji Trophy : Bombay ; Duleep Trophy : West Zone ; Irani Trophy : Bombay ; Rohinton Baria Trophy (Inter-University) : Delhi ; Cooch-Bihar Trophy (Schools) : West Zone ; C. K. Nayudu Memorial Trophy (Inter-State Schools) : West Bengal.

Cycling

Men

1,000 Metres Sprint : Sucha Singh (Services) ; 4,000 metres individual pursuit : Karamvir Singh (Punjab) ; 1,600 metres massed start : Amar Singh (Services) ; 4,000 metres team pursuit : Punjab ; 1,000 metres time trial : D. S. Randhawa (Services) ; 1,600 metres team time trial : Services ; 160 Km. : race : Ram Kumar Joshi (Rajasthan).

Women

500 metres time trial : Lina Lobo ; 1,000 metres massed start : Suman.

Football

Santosh Trophy : Mysore ; Rover's Cup : Mohun Bagan ; Durand Cup : Border Security Force ; I.F.A. Shield : Mohun Bagan and Mohammedan Sporting Club shared trophy.

Golf

Vikramjit Singh.

Hockey

National : Punjab ; Gold Cup : Border Security Force ; Aga Khan : Punjab Police.

Kabbadi

Men : Railways ; *Women* : Maharashtra.

Kho Kho

Men : Baroda ; *Women* : Baroda.

National Chess

Nazir Ali (U.P.).

Weight-lifting

Flyweight : S. J. Gabriel (Railways); Bantam : S. Vellaiswami (Tamil Nadu); Feather : L. K. Das (Railways); Light : M. L. Ghosh (Services); Middle : S. L. Salwan (Services); Light-heavy : A. N. Ghosh (Railways); Middle-heavy : Adi Irani (Railways); Heavy : Balbir Singh (Delhi); Team Championship : Services.

Table Tennis

Men's Singles : Khasim Ali; Men's Doubles : K. Jayant and B. Saikumar; Mixed Doubles : F. R. Khodaiji and Miss Kaity Chargeman; Women's Singles : Usha Sunderaraj; Women's Doubles : Kaity Chargeman and Prisca Rosario; Juniors' Singles : Dilip Raj Saxena; Junior Girls' : N. Mowla; Men's team Championship : Railways. Women's : Maharashtra "A"; Juniors : Maharashtra.

Asian Tennis

Men's Singles : Jaideep Mukherjea; Men's Doubles : Jaideep Mukherjea and Premjit Lal; Women's Singles : Nirupama Vasant; Mixed Doubles : Drone and Miss Dibar (Rumania).

National Tennis

Men's Singles : Nastase (Rumania); Women's Singles :

Miss Dibar (Rumania); Men's Doubles : Nastase and Marmoreau; Mixed Doubles : Nastase and Miss Vasant.

Volleyball

Men : Punjab; Women : Andhra.

Bombay Races

1,000 Guineas : Messrs. Sigtia, Ruia and Jhaveri's "Venus de Milo"; 2,000 Guineas : Mr. Mehmood Ali's "Hard Held"; Indian St. Leger : Mr. G. Venkateswara Rao's "Fair Haven"; Indian Derby : Mr. G. Venkateswara Rao's "Fair Haven"; Oaks : Mr. G. Venkateswara Rao's "Fair Haven".

Poona Races

Turf Club Cup : Maharaja and Maharani of Gwalior's "Florina".

Calcutta Races

Derby : Mr. G. Venkateswara Rao's "Fair Haven"; Invitation Race : Mr. T. G. Gaokar and late Mrs. Gaokar's estate's "Mother Son".

Madras Races

South India Derby : Mr. J. O. Thomas's "Streak of Dawn".

Delhi Races

Indian Gold Cup : Capt. R. G. Saulez's "PAM".

HOUSING*

IT has been estimated that at the beginning of the Fourth Five Year Plan, the shortage of housing is roughly 837 lakh units—119 lakhs in the urban areas and 718 lakhs in the rural areas. The overall housing shortage is estimated to increase by more than 20 lakh units annually. Against this, the annual rate of new construction, including that in the private sector, is estimated to be about three lakh units only.

Up to the end of March 1968, the Central Government allocated plan funds amounting to Rs. 268.80 crores to the State Governments and Union Territories as financial assistance towards implementation of the Social Housing Schemes of this Department. The States, etc., however, utilised only a sum of Rs. 204.05 crores up to the end of March 1968, resulting in a shortfall of Rs. 68.75 crores. For the year 1968-69, the allocations of Plan funds amounted to Rs. 7.71 crores.

To supplement Government funds, arrangements were made with the Life Insurance Corporation to advance loans amounting to Rs. 113.14 crores (including Rs. 12 crores for 1968-69) to State Governments for housing schemes during the period from 1959 to 1968-69. These loans have been utilised by the States mainly for financing the Middle Income Group Housing Scheme, the Rental Housing Scheme for State Government Employees and the Land Acquisition and Development Scheme.

Under the various housing schemes, up to the end of 1967-68, 4,67,341 houses were sanctioned for construction, out of which 3,58,890 were completed. 18,252 acres of land were acquired and 11,030 acres developed for housing purposes.

The details of progress, under individual Housing Schemes administered by the Ministry of Works, Housing and Urban Development are indicated below.

PROGRESS UNDER THE SOCIAL HOUSING SCHEMES**Integrated Subsidised Housing Schemes for Industrial Workers and Economically Weaker Sections of Community :**

Housing for Industrial Workers : It is intended for low-paid workers whose wages do not exceed Rs. 350 p.m.

The rents recoverable from the workers are based on 50 per cent of the approved cost of construction. A worker-allottee of the house under the scheme can retain it even after crossing the wage limit of Rs. 350 p.m. till he reaches the wage limit of Rs. 500 p.m. on payment of some additional charges. Upto the end of September 1968, Rs. 70.85 crores were sanctioned by the States and Union Territories for the construction of 1,90,199 houses, out of which 1,63,715 have been completed. Rs. 62.19 crores were spent till the end of March 1968.

Housing for Economically Weaker Section of Community:

Under this Scheme, the allottees were given 25 per cent rent subsidy. The programme was integrated with the housing scheme for industrial workers with effect from 1st April 1966. As a result of integration, subsidised rent based on 50 per cent of the cost of construction is charged from the allottees as in the case of houses meant for industrial workers. Upto the end of September 1968, the construction of 7,130 houses was sanctioned, out of which 3,148 have been completed.

Low Income Group Housing Scheme

Loans under the scheme can be granted for (i) purchase of new ready-built houses from reliable building agencies and (ii) for construction of new houses including residential portions of the premises which are intended to be used for shop-cum-residential purposes. Upto 30th September 1968, 1,61,538 houses were sanctioned, out of which 1,23,234 were completed. Central assistance amounting to Rs. 90.07 crores was drawn by the State Governments and Union Territories upto 31st March 1968.

Subsidised Housing Scheme for Plantation Workers

The scheme provides for the grant of financial assistance to planters to the extent of 75 per cent of the approved cost of houses (25 per cent subsidy and 50 per cent loan) for the construction of rent-free houses for their workers. The balance of 25 per cent is to be contributed by the planters. In the case of co-operatives of the plantation workers, financial assistance is given up to 90 per cent of the approved cost of a house—65 per

* Source : 1968-69 Report of the Ministry of Family Planning, Works, Housing and Urban Development (Department of Works, Housing and Urban Development).

cent loan and 25 per cent subsidy. The balance of 10 per cent is to be arranged by the co-operatives themselves. The scheme is at present being implemented in Assam, Kerala, Mysore, Tamil Nadu, West Bengal and in the Union Territory of Tripura. The approved cost of a house in Kerala, Mysore and Tamil Nadu was raised from Rs. 3,000 to Rs. 3,200 per house and in West Bengal, Assam and Tripura from Rs. 3,800 to Rs. 4,000 per house from 1st April 1967.

Upto the end of December 1968, 2,003 houses were sanctioned for construction since the inception of the scheme and 1,484 houses have been completed. A sum of Rs. 35.95 lakhs has been disbursed by the State Govts. upto the end of December 1968 under the scheme.

Village Housing Projects Scheme

This scheme provides for the grant of loan assistance to villagers (construction of new houses or for improvement of existing houses) upto 80 per cent of the cost of construction/improvement subject to a maximum of Rs. 3,000 per house. The scheme provides for 100 per cent grants to State Govts. etc., for provision of house-sites to landless agricultural workers and for laying of streets and drains for improving the sanitation of the villages. Technical guidance is provided to villagers and local authorities through the State Rural Housing Cells. 50 per cent of the cost of pay and allowances of the staff of the cell is met from Central grants. As far as possible, assistance under the scheme is to be utilised in selected villages in conjunction with the rural programmes of other Ministries/Departments. Upto the end of December 1968, 69,524 houses were sanctioned out of which 40,680 have been completed. Loans sanctioned to villagers amount to Rs. 11.20 crores of which Rs. 8.51 crores have been disbursed.

Middle Income Group Housing Scheme

Under this scheme, persons whose income is between Rs. 7,201 and Rs. 15,000 per annum are eligible to get loan assistance upto 80 per cent of the cost of house including the cost of land, subject to a maximum loan of Rs. 25,000 per house. In the case of houses constructed by the State Governments and their designated agencies, loan assistance equivalent to 100 per cent of the cost of construction, subject to a maximum of Rs. 30,000 per house, is admissible. Loans can also be granted to eligible persons for purchase of ready-built houses from reliable house building agencies.

In the States, the scheme is financed by the loans advanced by the Life Insurance Corporation of India. The funds required for the Union Territories are provided by the Central Government.

Upto the end of December 1968, loan amounting to Rs. 43.47 crores was sanctioned for the construction of 24,520 houses. Rs. 35.95 crores have been disbursed and 18,602 houses completed.

Rental Housing Scheme for State Govt. Employees

This scheme gives loans to the State Governments for constructing residential accommodation for their employees. The funds are provided by the Life Insurance Corporation. The houses constructed are exclusively meant for the State Govt. employees. Upto the end of December 1968, the State Governments sanctioned construction of 23,212 houses at a cost of Rs. 24.00 crores. Of these, 17,134 houses have been completed. The expenditure so far incurred is Rs. 21.11 crores.

Land Acquisition & Development Scheme

This scheme assists the State Governments and Union Territory Governments/Administrations to acquire and

develop land on a large scale in urban areas to enable them to provide house sites at reasonable rates to prospective builders in the Low Income brackets. Its object is to stabilise land prices and promote urban development by setting up composite housing colonies in a planned way. The scheme is being implemented in the States from the funds made available by the Life Insurance Corporation of India. In the case of Union Territories, requisite funds are being provided by the Government of India.

Upto the end of September 1968, 432 projects for acquiring and developing 58,225 acres of land at a cost of Rs. 68.10 crores were sanctioned. 18,700 acres of land have been acquired and 11,127 acres developed. The expenditure incurred by the State Governments amounts to Rs. 24.91 crores.

House Building Advances to Central Government Employees

Central Government employees including those governed by the Payment of Wages Act, 1936, are eligible for loan assistance. Advances for building houses, or for the purchase of ready-built houses/flats by a Government or semi-Government agency or an autonomous institution like the improvement trusts, etc. are granted to the Central Government Employees, subject to certain conditions. The quantum of advance admissible is 48 times the pay of an employee or Rs. 35,000 or the cost of construction/building, whichever is less provided that the total cost of the building (excluding the cost of land) does not exceed 60 times the pay of the employee or Rs. 80,000 whichever is less. In the case of low-paid employees, however, the ceiling limit applicable is 60 times the pay or Rs. 20,000, whichever is more. Advances are also admissible under this scheme for enlargement of existing houses subject to a maximum of Rs. 12,500.

From 1st April 1968 to 31st December 1968, 911 applications for advances aggregating to Rs. 140.60 lakhs were approved as against 499, aggregating to Rs. 61.57 lakhs during the corresponding period of the last year. Since the inception of this scheme, till the end of December 1968, 7,060 applications for advances aggregating to over Rs. 9.17 crores of loans have been approved. Out of this amount, approximately Rs. 6.09 crores have been disbursed.

Slum Clearance/Improvement Scheme

Since the inception of the Scheme in May 1956, upto December 1966, Central assistance totalling Rs. 25.97 crores was given to all the State Governments and in the Union Territories of Delhi and Tripura. In physical terms, upto December 1966, construction of 1,09,235 dwelling units costing Rs. 47.49 crores has been sanctioned out of which 65,174 units have been completed. A sum of Rs. 4.15 crores has been proposed under this scheme in the budget for 1967-68.

Jhuggi & Jhopri Removal Scheme

The Scheme aims at providing alternative accommodation on rental basis to unauthorised squatters on Government and public lands in Delhi, numbering about 50,000 families, whose occupation dates from before July 31, 1960. Till the end of 1966, projects have been formulated for the laying of 45,639 plots (30,801 of 25 sq. yds. and 14,838 of 80 sq. yds.) and construction of 5,000 tenements. Out of these, 26,902 plots (23,241 of 25 sq. yds. and 3,661 of 80 sq. yds.) have already been laid. The work of construction of 3,875 tenements are at various stages of construction. Approximately 22,000 families have so far been allotted plots of land.

ANDAMAN AND NICOBAR ISLANDS

CAPITAL: Port Blair. Pop. 63,548 (1961). Area: 43,215 sq. miles. Literacy: 40.1% (See under Population for more details).

The Andamans are a string of islands of various sizes, large and small, lying between 10° to 13° 45' N latitude and from 92° 15' to 93° 15' E longitude in the Bay of Bengal. They have an average width of 15 miles and an axis of about 200 miles. The northernmost 'Land-fall Island' is 560 miles from the mouth of Hooghly River. The headquarters Port Blair is about 780 and 740 miles from Calcutta and Madras respectively. The main part of the Andaman group is composed of five large islands, viz., North Andaman, Middle Andaman, South Andaman, Baratang and Rutland Islands generally known as the Great Andamans. To the south of the Great Andaman is the island of Little Andaman. These islands consist mostly of a mass of hills covered with dense tropical forests and separated by three straits and several creeks. These islands have several very good harbours—Port Blair, Port Cornwallis, Mayabunder and Port Elphinstone.

The Nicobar Islands from Car Nicobar in the north to Great Nicobar in the south intervene between Little Andaman and Sumatra. The southern island of Great Nicobar is about 100 miles from Pilo Brasse off Achin Head of Sumatra and the northern island of Car Nicobar 75 miles from Little Andamans. These islands are partly hilly and partly flat. The most important harbour in the area is Nancowrie reputed to be the finest harbour in the east.

FORESTS

Forests cover an area of 6,055 sq. kms. of which 78 per cent is under evergreen and deciduous forests.

The forests are rich in commercial timber and are suppliers of timber to the plywood and matchwood industries.

The species of timber found in the forest region are mainly padauk, Andaman Redwood, Gurjan—a plywood species and Papita—a matchwood species. Annually the Forest department exports approximately 25,000 tons of timber to the mainland.

Teak plantations have been successfully raised in Andaman Islands. Large areas have been brought under matchwood and cane plantations under the Five Year Plan schemes.

AGRICULTURE

Total reporting area is about 43,000 hectares. The principal crops are rice, coconut and arecanut. The estimated area under paddy cultivation is about 7,441 hectares. The average yield of rice in 1967-68 was 1.20 metric ton per hectare. Commercial prospects of cultivation of rubber, coffee, and lac in these islands are considered to be bright by the experts.

Animal Husbandry: There are at present one veterinary hospital and four veterinary dispensaries functioning in the various parts of these islands.

COLONISATION

Ancillary services like schools, hospitals and dispensaries have been provided in the colonisation area.

Under the development programme submitted by the interministerial team sponsored by the Ministry of Rehabilitation, Government of India, Sakharis and their

families totalling 2,911 persons, in addition to some of the staff of the Rashtriya Vikas Dal, have been brought to these islands till 1968.

INDUSTRY

Saw milling is the main important industrial activity in the Territory and provides employment to 1,200 workers corresponding to 8 per cent of total industrial employment. The other industries include Government Dockyard, transport workshop, a printing press at Port Blair, tractor repair shop, plywood factory, match splint factory and boat building yards at Long Island. Besides, a number of training-cum-production centres have been started by the Government.

POWER

A.C. Electric Supply in Port Blair was started in 1950 with a 400 kW. capacity (Aerated) Steam turbo Alternator set. During 1954 a similar set was also installed. During 1963 a 330 kW Diesel Generator set was added in the Power House and during the year 1968 another 440 kW Diesel Generator set was under installation.

During 1965 2 Nos. Diesel Generator sets each of 24 kW were installed at Rangat. During 1966 2 Nos. each of 24 kW Diesel Generator sets were installed at Mayabunder and Car Nicobar.

During 1967 3 Nos. each of 24 kW capacity Diesel Generator at Diglipur, 2 Nos. each of 9 kW capacity at Nancowry and one No. 9 kW Diesel generator set at Big Lapathi in Car Nicobar were installed. In addition to the 2 Nos. 24 kW Diesel generators installed at Rangat and Mayabunder, one more No. of 24 kW Diesel generator was added at Rangat and Mayabunder during the year 1968.

ROADS

At present the Territory has a total length of 338 km. of black top road as against 172 km. in 1960-61.

Transport: Port Blair has a city and rural transport service comprising 20 passenger buses.

Minor Ports: Under a Central plan scheme jetties for inter island communications are being constructed. Installation of navigational aids in Andaman and Nicobar waters had been entrusted to the Director-General of Lighthouses and Lightships.

Shipping: Three ships m.v. 'Andamans', m.v. 'Nicobar' and t.s.s. 'State of Bombay' (passenger-cum-cargo ships) ply between the mainland and the Islands. For inter-island communications, the vessels s.s. 'Cholunga', t.s.s. 'Yerewa' and m.v. 'Little Andaman' maintain the communications.

There is a bi-weekly air service between Calcutta and Port Blair via Rangoon.

EDUCATION

The Territory is educationally backward and education upto higher secondary stage is free. There are 115 primary schools, 11 Senior Basic Schools, 5, Higher Secondary Schools, one for boys and the other for girls at Port Blair, one for boys and girls at Car Nicobar, one at Diglipur and one at Rangat; one J. B. Teachers Training School, one Pre-primary School and one Central School. One Govt. Degree College has been functioning since October 1967. Students belonging to these islands are also granted scholarships for prosecution of higher studies on the mainland.



"Based upon Survey of India map with the permission of the Surveyor-General of India."

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TOURISM

As a first step towards development of tourism in these islands, one tourists' home at Corbyns Cove and another at Port Blair have been constructed.

MEDICAL SERVICES

All treatment, medical or surgical is completely free. For specialised treatment patients are sent to the mainland at Government cost.

A new general hospital (Gobind Ballabh Pant Hospital) has been constructed at Port Blair. There is also a 50-bed T.B. hospital at Port Blair. Besides, there are hospitals at Car Nicobar, Nancowrie, Bamboo Flat, Mayabunder, Long Island, Rangat and Diglipur. Besides one Primary Health Centre is also functioning. The total strength of the beds is 461 including the bed strength of the T.B. hospital. There are 42 dispensaries all over the islands.

A Malaria and Filaria Survey Control Unit under the National Health Scheme operates in the central group of Nicobar Islands. A V.D. unit is functioning in Car Nicobar. The incidence of diseases in these islands is remarkably low compared to that of the mainland.

COMMUNITY DEVELOPMENT

Four C.D. blocks are functioning at present. Out of these three are in Stage I and one in Stage II.

Panchayats: Thirty-six Gram Panchayats and 31 Nyaya Panchayats have been established in the Andaman

group of islands. In the Nicobar group, the traditional Panchayats continue.

CO-OPERATION

The number of co-operative societies in the islands has increased from 161 in 1965-66 to 182 in 1967-68.

Two co-operative farming societies and 22 co-operative plantation societies continued to function.

BANKS

A branch of the State Bank of India at Port Blair conducts Government Treasury business. A State Co-operative Bank has also come into existence with effect from 31st March 1966.

ADMINISTRATION

The Islands are administered by the Central Government through a Chief Commissioner. The budget estimates for 1968-69 are as follows:—

Total Revenue expenditure Rs. 7,16,25,000; Total Capital Expenditure Rs. 3,28,97,000; Total Revenue Receipts Rs. 2,47,25,000.

Chief Commissioner: H. S. Butalia, I.F.A.S.

Chief Secretary: S. L. Bhargav, I.A.S.; *Development Commissioner-cum-Development Secretary:* A. H. Scott, I.F.A.S.; *Chief Development-cum-Rehabilitation Commissioner:* B. K. Halve, I.A.S.; *Chief Conservator of Forests:* J. C. Varmah.

Secretary (Finance): B. B. L. Bhardwaj; *Secretary (Judicial):* V. K. Choudhary.

ANDHRA PRADESH

CAPITAL: Hyderabad. Area: 1,06,286 sq. miles; Population: 3,59,83,447 (Males 1,81,61,671; females 1,78,21,776 (1961 census)).

Sex ratio: 98.1 females for every 100 males. Highest sex ratio in Srikakulam—104 females for 100 males. Lowest in Anantapur—94.6 females for 100 males.

No. of Districts: 20. No. of Towns: 212. No. of Talukas: 189.

Density 339 per sq. mile. Literacy 21 per cent.

The number of Municipal Corporations: 1. The number of Town Municipalities in Telangana: 79; Number of Municipalities in Andhra: 47; Number of Panchayats in the State: 15,266; Number of Panchayat Samities: 321; Zilla Parishads: 20; Number of inhabited villages in the State: 28,997.

Strength of Legislative Assembly: 288.

The strength of the Legislative Council: 90.

No. of members from Andhra Pradesh to the Rajya Sabha: 18. No. of members from Andhra Pradesh to the Lok Sabha: 43.

DISTRICTS

Districts with District headquarters in brackets:

Anantapur (Anantapur), Chittoor (Chittoor), Cuddappah (Cuddappah), East Godavari (Kakinada), Guntur (Guntur), Krishna (Machilipatnam), Kurnool (Kurnool), Nellore (Nellore), Srikakulam (Srikakulam), Vishakapatnam (Vishakapatnam), West Godavari (Eluru), Hyderabad (Hyderabad), Mahboobnagar (Mahboobnagar), Warangal (Warangal), Khammam (Khammam), Karimnagar (Karimnagar), Adilabad (Adilabad), Nizamabad (Nizamabad), Medak (Sangareddy), Nalgonda (Nalgonda).

POPULATION

(For area and population of districts according to 1961 Census see under "Population".)

AGRICULTURE

Geographical area of A.P. 1,06,052 sq. miles. The following figures are in hectares: Forests 2,74,75,240; barren land 61,17,166; uncultivable land 20,83,392; land put to non-agri. uses 20,56,185; cultivable waste 13,73,801; permanent pasturing and other grazing lands 11,57,200; land under misc. crops not included in the net area sown 3,05,166; current fallows 21,73,540; other fallow lands 8,65,947; net area sown 1,13,42,843; area sown more than once 13,33,079; total cropped area 1,26,75,922; net area irrigated 30,24,657; total gross area of crops irrigated 38,24,865.

Area Under Important Crops

(Figures in hectares)

Cereals: rice 33,22,937; wheat 13,885; jowar 25,36,435; total millets 46,83,551; total pulses 13,07,312; total food-grains 93,27,685; total crops 1,00,11,413; total fibres 4,13,825; total non-food crops 26,64,508.

Land Reforms

The State Government in consultation with the Government of India enacted the Andhra Pradesh Ceiling on Agricultural Holdings Act, 1960 which prescribed the minimum extent of land that a person may hold. The Bill was passed by the Assembly on July 9, 1960.

(See article "Agriculture" for ceiling on holdings of land)

LIVESTOCK (1966)

(See page 63 under article on "livestock")

INDUSTRY

The revised total 3rd Plan provision for the entire industrial sector was Rs. 1,672 lakhs. Against this outlay an expenditure of about Rs. 1,513 lakhs was incurred.

The Andhra Pradesh Industrial Development Corporation, the Small Scale Industries Development Corporation and the Andhra Pradesh State Financial Corporation were constituted to attract entrepreneurs. The Industrial Development Corporation offers financial aid to industries and also takes up worthwhile ones for direct promotion with financial collaboration from the private sector wherever necessary.

Industrial Estates

During the Third Five-Year Plan period, an amount of Rs. 220 lakhs had been provided for the establishment of Industrial Estates and 14 Assisted Private Industrial Estates, 10 conventional type estates, 5 Rural Industrial Estates and one Cooperative Industrial Estate in addition to the expansion of the existing four Industrial Estates at Sanatnagar, Visakhapatnam, Vijayawada and Warangal.

A large variety of products such as cycles and cycle accessories, steel furniture, scientific instruments, wire nails, radios, tape recorders, electric measuring instruments, cycle dynamo lights, automobile springs, air-conditioners, safety razor blades, PVC cables, transformers, switch-gear, electric accessories, plastic goods, builders' hardware, storage batteries, stainless steel vessels, agricultural implements etc., are being manufactured in these estates.

Industrial Co-operatives

The Industrial Cooperatives are organised for the benefit of artisans engaged in various village and small scale industries. These industries cover Village Leather Industry, Carpentry, Hand Pounding of rice, Hand Made Paper, Pottery and Brick, Village Oil, Handicrafts like Ivory and Horn, Pile Carpet, Silver Filigree, Kalamkari Dying etc.

The number of societies has risen from 319 in 1956 to 2,257 in 1966-67. The position at the end of the Third Plan of the Industrial Cooperatives were: No. of societies, 2,188; No. of members 79,958; Paid-up share capital Rs. 37.99 lakhs; Production valued at Rs. 143.05 lakhs; Sales Rs. 149.14 lakhs.

Provision in Rs. lakhs for the development of industrial cooperatives during the 2nd, 3rd and 4th Five Year Plans: 7.25; 8.45; 10. Expenditure during the 2nd and 3rd Plan in Rs. lakhs: 7.02; 5.64.

The Government have been giving managerial and technical assistance to the deserving societies in addition to providing working capital and share capital loans and grants.

MINERALS

The chief minerals in the State are apatite, asbestos, barytes, clays, coal, copper, gold, graphite, iron ores, limestones, manganese, mica, quartz and steatite. The coal industry is concentrated around Kothagudem and Yellandu in Khammam district and Bellampalli in Adilabad district. Clongotile asbestos found in Pulivendla taluk of Cuddapah district and produced only in this State, is mostly exported. Good quality barytes is found mainly in Cuddapah, Anantapur and Khammam districts. Mica, concentrated around Gudur in Nellore district, is mainly

exported. Good clay deposits are widely distributed in the State. The manganese deposits in Srikakulam and Visakhapatnam districts sustain the Ferro-manganese industry in the State. The State has good reserves of iron ores scattered over several districts. Large deposits of magnetite ores have now been brought to light in Guntur and Nellore districts. Recently the Geological Survey of India has proved very good deposits of copper at Mailaram, in Khammam district and at Agnigundala in Guntur district and gold at Ramgiri in Anantapur district. The State is also an important producer of steatite of lavagrade and the deposits are mainly concentrated in Anantapur and Kurnool districts. Large reserves of Cement grade limestones are found in the State. Chemical grade and flux grade limestones are also available. Graphite is found in East Godavari, Visakhapatnam and West Godavari and Khammam districts. The Graphite-crucible industry is situated at Rajahmundry. Good deposits of quartz and silica sands are available in the neighbourhood of Hyderabad. The State has also precious and semi-precious minerals.

COTTAGE INDUSTRIES

The most important industry is that of handloom. There are about six lakh handlooms in the State and provides employment for about three million persons.

The handloom goods exported from the State of Andhra Pradesh will be about 20 to 25 per cent of the export from the country.

The important varieties of handloom goods produced in the State which are exported are as follows: Bleeding Madras — Indian Madras; Madras Handkerchiefs; Lungies, Sarongs; Silks-printed, Tussar.

The production value of cotton handloom cloth, woollen handloom goods and silk handloom cloth in the State during the year 1966-67 in Rs. lakhs was of the order of 3,209, 279 and 15 respectively.

TRANSPORT

The total road mileage including National Highways and State Highways 13,053.

Hyderabad City is connected by air with Bombay, Nagpur, Madras, Visakhapatnam and Bangalore. Hyderabad City is served by Begumpet aerodrome. Hyderabad is also linked by air to Delhi and Calcutta.

The following is the vehicular position as on 31st March 1967. The first figure shows the number of registered vehicles and the second number of those in actual use:

Stage Carriages 7,053; 4,342; Goods Vehicles 16,950; 12,509; Taxi Cabs and contract Carriages 1,832; 1,460; Motor Cycles and Scooters 20,290; 14,213; Motor Cars and Jeeps 31,141; 19,203; Others 8,039; 3,872.

POWER PROJECTS

The aggregate power demand in Andhra Pradesh which was 190 MW at the beginning of the Third Plan has risen to 258 M.W. at the end of the Third Plan. The installed capacity of 213 MW at the beginning of the Third Plan, has gone up only to 291.8 MW at the end of the Plan and further to 645 MW by the end of 1967-68.

Machkund Hydro-Electric Scheme (Stage I and Stage II)

The Machkund Hydro-Electric Scheme is a joint venture of the States of Andhra Pradesh and Orissa. The two States share the capital outlay and power benefits in the ratio of 70:30 respectively. An ultimate installed capacity of 1,14,750 kW of which 70 per cent is Andhra Pradesh's share is available under this scheme.

Tungabhadra Hydro-Electric Scheme*(Details are given under "Irrigation").***Tungabhadra Nellore Hydro-Thermal Scheme**

The scheme envisages the installation of one 30-MW thermal set at Nellore. The plant has been commissioned already.

Upper Sileru Hydro-Electric Scheme

The scheme envisages the installation of two sets of 60 MW each by utilising the tail race waters of Machkund power house. The first 60 MW unit was commissioned in Oct. 1967 and the second unit was commissioned in March 1968.

Telangana Hydro-Thermal Scheme

The scheme envisages the integrated development of power generated at Hussainsagar, Ramagundam Thermal station and at Nizamsagar Hydel stations in Telangana region. In addition certain trunk transmission work, sub-transmission and distribution works were also included in the scheme to form a grid net work in Telangana area. General diesel stations were also installed under this scheme at various places. The scheme is almost complete. The additional boilers erected at Ramagundam and Hussainsagar power houses contributed to the firming up of about 14 MW of existing thermal capacity at these two stations.

Srisailem Hydro-Electric Scheme

The scheme envisages installation of 4×110 MW sets in the first stage. Work on the project is proceeding briskly.

The project is estimated to cost Rs. 74.7 crores. The expenditure incurred on the project to the end of 1967-68 was Rs. 21.77 crores.

Balimela Dam

This is a joint scheme of Andhra Pradesh and Orissa Governments under execution by the Balimela Control Board. The total storage capacity of the Dam is 135 T.M. Cft., and 100.25 T.M. Cft. will be the live or effective capacity. There will be a power house erected at the toe of the Balimela Dam. The power generated here, i.e., 40 MW will be exclusively for the use of Andhra Pradesh. Andhra's share of the cost of the project is about Rs. 12 crores and the state will get a continuous discharge of about 2,000 cusecs for utilisation in the projects downstream.

Kothagudem Thermal Scheme (Stages I & II)

This new scheme envisages the installation of 2×60 M.W. sets each under Stages I & II. The sets under Stage I were commissioned in 1966 and the sets under Stage II in 1967. The scheme was executed with the aid of World Bank Loan.

Stage II scheme also contemplates an extension of the existing Kothagudem Thermal Station by an addition of two generating units of 110 MW each being procured from Bharat Heavy Electricals and is expected to be commissioned in 1972-73.

Ramagundam Thermal Extension Scheme (Stage I)

This new Scheme envisages the installation of one 62.5 MW set at Ramagundam. It is expected to be commissioned in 1970. This is being executed with loan given under U.S. Aid.

Gas Turbo Sets at Hyderabad

This scheme envisages the installation of 2×10 M.W. Gas Turbo sets at Erragadda to relieve to some extent the

power shortage in the twin cities of Hyderabad and Secunderabad, particularly during the peak load hours. The sets have been installed and commissioned into service.

Lower Sileru Hydro-Electric Scheme (Stage I)

This scheme envisages the installation of 4×100 M.W. Sets at Donkarai village on the river Sileru as the first stage of the project at an estimated cost of Rs. 42.36 crores. The power generated under this scheme will be exclusively for the benefit of Andhra Pradesh. Actual work has started and 2×100 MW sets will be supplied from USSR under Russian aid and two sets by BHEL. Two more units of similar capacity will be added in the Second Stage at a later date. The first stage is expected to be commissioned in 1973-74.

IRRIGATION

In the Third Plan expenditure on irrigation projects including flood control schemes amounted to Rs. 93.01 crores forming 26.4 per cent of the total revised outlay of Rs. 352.42 crores.

An irrigation potential of 9.65 lakh acres was created in the first Three Plans under all major and medium irrigation projects. The area expected to be brought under irrigation at the end of the Third Plan was 7.06 lakh acres.

Major Irrigation Schemes

Prakasam Barrage: The total ayacut benefited under this scheme is 11.06 lakh acres and it is estimated to cost Rs. 291.57 lakhs; *Bhairavunitippa Project*: It commands an ayacut of 12,000 acres and is estimated to cost Rs. 145.77 lakhs; *Upper Pennar Project*: Proposed to feed an ayacut of 9,700 acres and is estimated to cost Rs. 158.62 lakhs; *Rallapadu Project*: Intended to irrigate 11,000 acres and is estimated to cost Rs. 105.81 lakhs; *Romperu Drainage Scheme*: 19,300 acres are benefited and is estimated to cost Rs. 126.60 lakhs; *Tungabhadra Project Low Level Canal*: The Canal is designed to irrigate about 1,48,800 acres in Andhra Pradesh costing Rs. 1,281.28 lakhs; *Tungabhadra Project High Level Canal*: Expected to irrigate 1.191 lakh acres and 598 lakh bund area in Andhra Pradesh and 70,300 acres in Mysore State. Estimated to cost Rs. 1,180 lakhs; *Rajolibanda Diversion Scheme*: The canal irrigates an ayacut of about 5,900 acres in Mysore State and about 87,000 acres in Andhra. Estimated cost is Rs. 383 lakhs; *Kadam Project*: Total utilization of the ayacut will be 65,000 acres. Estimated cost is Rs. 784.12 lakhs; *Keddam Project*: Irrigates 65,000 acres in the first and 20,000 acres in the second crops, estimated to cost Rs. 798 lakhs; *Pochampad Reservoir Project*: Designed to irrigate 5.7 lakh acres and is estimated to cost Rs. 40.10 crores.

Nagarjunasagar Project, Tungabhadra Project High level canal, Pochampad Project, Vamsadhara Project, Rajolibanda Diversion Scheme and Kadam Project are the major projects in Andhra Pradesh that are, at the moment, at various stages of progress. For details about Nagarjunasagar Project and Tungabhadra Project (see page 88 under article on irrigation).

LABOUR*(See article on Labour).***PUBLIC HEALTH**

During the three years 1966-67, 1967-68 and 1968-69, Rs. 1,329.24 lakhs were provided for Medical and Public

Health Schemes including water supply, drainage and sanitation, and out of this Rs. 582.55 lakhs pertain to the services operated under the Medical and Health Directorates.

It is proposed to increase the medical facilities and also to improve the quality of services during the ensuing Fourth Five Year Plan.

Hospitals, Beds, Staff etc., as on 31st March 1968 :

No. of Teaching Hospitals 24 ; No. of beds in the Teaching Hospitals 9,572 ; District Headquarter Hospitals 17 ; No. of beds in Dt. Hospitals 2,984 ; General and Taluq Hospitals 210 ; No. of beds in the Hospitals 3,722 ; Dispensaries 142 ; No. of beds in Dispensaries 165 ; Other Hospitals and Sanitoria 10 ; No. of beds in Sanitoria and others 1,187 ; Primary Health Centres 409 ; Sub-centres 1,122 ; Beds in PHCS 2,454 ; No. of Doctors 2,248 ; Overall bed strength of Govt. Institutions 20,084 ; Ayurvedic Hospitals 3 ; Ayurvedic Dispensaries 78 ; Ayurvedic Vaidyas 127 ; Unani Hospitals 1 ; Unani Dispensaries 82 ; Unani Hakim 145.

Leprosy Control : It is estimated that there are six lakh cases of leprosy in the State. National Leprosy Control Programme was chalked out and the State established 16 Leprosy subsidiary Centres, 2 Leprosy Control Units, 2 Training Centres and 148 Survey Education and Treatment centres in addition to the existing Leprosy clinic at Karwar, Hyderabad, 35 S.E.T. Centres were sanctioned under L.C.P. (Leprosy Control Programme).

Family Planning : 170 Urban Family Planning Centres and 262 Rural Family Welfare Centres with reorganized pattern have been established in the State. The voluntary organisations and local bodies are also running family welfare centres and rendering services on Family Planning Programmes. In the year 1967-68 the State family planning organisations performed 170,796 sterilisations and 54,072 IUCD insertions respectively. During April to August 1968, 543,968 sterilisations and 83,621 I.U.C.D. insertions were done.

National Smallpox Eradication Programme : By end of the IIIrd Five Year Plan 300 lakhs of population i.e. nearly 75% of the State population have been vaccinated.

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CONSULTING ENTOMOLOGISTS—TERMITE CONTROL
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Phone : 3709

Head Office : Yusuf Building, Mahatma Gandhi Road,
Bombay 1.

(For further details please see Bombay Commercial
Firms Section).

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Bombay-1.

(For further details please see Bombay Commercial
Firms Section).

Maternity and Child Health : During the year 1967-68 the average number of mothers who attended the M.C.H. Centres opened during the IIIrd Plan was 7,000 at anti-natal clinics and two thousand at post-natal clinics. Further 22,000 anti-natal mothers were given advise by Centre staff.

EDUCATION

Total no. of educational institutions in the State in 1965-66 concerned with D.P.I. was 42,900. No. of students : 47,98,533. No. of Universities : Four. Total no. of medical colleges : 14 ; No. of students : 7,210.

(For more statistical information see "Education Tables").

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

ANDHRA PRADESH AGRICULTURAL UNIVERSITY

Dilkusha, Hyderabad 4.

The University is patterned on the Land grant colleges system of the United States. It has seven Colleges, three in the faculty of Agriculture, two in the faculty of Veterinary Science, one in the faculty of Home Science and one College of Basic Sciences.

The total No. of seats available in each faculty is as follows : (1) Agriculture B.Sc. (Ag.) 400 ; M.Sc. (Ag.) 100 ; (2) Veterinary Science B.V.Sc. 120 ; M.Sc. (V. Science)-50 ; (3) Home Science B.Sc. 65 ; M.Sc. (Home Science) 10.

The medium of instruction and examination in the University is English.

Chancellor : The Governor of Andhra Pradesh ; *Vice-Chancellor :* O. Pulla Reddi, I.C.S. (Retd.) ; *Registrar :* Dr. G. Venkataratnam.

BUDGET (1968-69)

Total Income : Rs. 293.40 lakhs ; Total Expenditure : Rs. 292.83 lakhs ; Grant from the State Govt. — (Non-Plan) : Rs. 76.05 lakhs ; Plan : Rs. 48.86 lakhs ; Grants from I.C.A.R. Rs. 97.68 lakhs ; Grants from the Centre : Rs. 3.15 lakhs ; Total grants : Rs. 225.74 lakhs.

ANDHRA UNIVERSITY

(Waltair)

Chancellor : Governor of Andhra Pradesh ; *Vice-Chancellor :* L. Bullayya, B.A. (Hons.), B.Ed. ; *Registrar :* M. Gopalakrishna Reddi, M.A. (Hons.), B.L.

Number of University Colleges : 5 ; No. of professional colleges : 10 ; No. of affiliated colleges : 52 ; No. of oriental colleges : 21.

1966-67 Budget

Income : Rs. 1,20,20,316 ; Expenditure : Rs. 1,19,33,942 ; Grants (Recurring : (a) From State Govt. : Rs. 15,15,600 ; (b) From University Grants Commission (Recurring) Rs. 12,546 ; (Non-recurring), Rs. 13,64,574 ; (c) From Govt. of India (Recurring) : Rs. 88,000.

Total No. of students at the University Colleges in 1966-67 was 2,746.

This university is teaching as well as affiliating. English is the medium of instruction.

OSMANIA UNIVERSITY

Hyderabad 7.

The Osmania University is a residential, teaching and affiliating university. It comprises nine Faculties, namely, Arts, Social Science, Science, Commerce, Medicine, Engineering, Education, Law and Technology. There are five University Colleges, nine constituent Degree Colleges

(including one exclusively Women's College and three Evening Colleges for Degree Courses for those in employment) and a Post-Graduate Centre.

55 Affiliated Colleges including 3 Medical, 1 Physical Education, 2 Engineering, 3 Training Colleges, 1 Nursing, 42 Degree Colleges of Arts, Science & Commerce (including 8 meant exclusively for women) and 3 P.U.C. Colleges.

Enrolment (1967-68): 43,254 (Arts and Science: Boys 21,556; Girls 6,170; Professional: Boys 14,222; Girls 1,306).

During 1967-68, 4 Colleges were affiliated to the University, with P.U.C. (Humanities and Science).

Chancellor: Khandubhai K. Desai, Governor of Andhra Pradesh; *Vice-Chancellor*: Ravada Satyanarayana; *Registrar*: L. B. Deshpande, B.Sc.

Total number of Arts and Science Colleges: Arts Colleges 19; Science Colleges 8; Arts and Science 28 and Professional 14. Total number of Women's Colleges: 11.

Total enrolment in Arts and Science Colleges: Boys 21,556; Girls 6,170.

Total number of Professors: 140; Other teachers 2,315.

Total number of Professional Colleges: 14 (Education, four; Engineering, three; Law, two; Medical, three; Physical Education, one; Nursing, one). Total enrolment in Professional Colleges: Boys 14,222; Girls 1,306.

Budget 1968-69

Receipts: Rs. 2,35,59,212. Expenditure: Rs. 2,40,14,402.

Contribution by State Government: Rs. 82,38,000; Central Govt.: 61,07,772.

SRI VENKATESWARA UNIVERSITY

Tirupati

A residential, teaching and affiliating University having jurisdiction extending over the districts of Anantapur, Chittoor, Cuddapah, Kurnool and Nellore in Andhra Pradesh.

There are 2 University Colleges and 30 Affiliated Colleges (20 Arts, 5 Professional and 5 Oriental). The authorities of the University are the Senate, Syndicate, Academic Council, Faculties, Boards of Studies and the Standing Committee of the Academic Council.

Instruction is being provided for Pass and Post-Graduate Degree courses of study in the teaching departments of

English, Telugu, Sanskrit, Hindi, Arabic, Persian, Urdu, Philosophy, Psychology, Economics, History, Mathematics, Statistics, Physics, Chemistry, Botany, Zoology, Geology, M.Sc. Home Science in the University College (Arts & Sciences). Research work leading to the Ph.D. Degree is also permissible in all these departments except in the Statistics Department. M.A. Degree course in Home Science has been started in the academic year 1964-65.

The University College of Engineering provides instruction for the Five Year Integrated Course in Engineering, Civil, Electrical and Mechanical branches.

There is now a Pre-University course of study followed by a three year degree course. There is also a two year Masterate course instead of the former Three Year Honours course. Provision has also been made for doing research leading to D.Sc. and D.Litt. degrees.

The medium of instruction and examination in the University is English excepting Modern Indian Languages and the languages for the Oriental Titles.

Chancellor: The Governor of Andhra Pradesh; *Vice-Chancellor*: Dr. V. C. Vaman Rao, M.A., Ph.D. (Dublin); *Registrar*: K. V. V. Subbaraju.

Total number of students in the University Colleges at the beginning of the academic year 1966-67: Boys 1,455; Girls 156. Total 1,611.

The total strength of the University (including University College) in 1966-67 was 18,266.

Budget 1966-67

Opening Balance: Rs. 14,94,925; Receipts: Rs. 1,91,93,255; Expenditure: Rs. 1,85,77,774; Closing Balance: Rs. 21,10,406.

MUNICIPAL CORPORATION OF HYDERABAD

Mayor: Smt. Kumud B. Naik.

Deputy Mayor: Kashi Ram.

PRINCIPAL OFFICIALS

Commissioner: N. Raghava, I.A.S.; *Addl. Commissioner*, R. R. Mahendra.

BUDGET FOR 1968-69

Income: Rs. 4,72,07,738; Expenditure: Rs. 4,72,07,738.

ASSAM STATE

CAPITAL: Shillong. Area: 47,089 sq. miles (1,22,192.9 sq. km.) according to Assam Survey. Geographical area 30.1 million acres.

Population (1961 census): 11,872,772. Density 252 per sq. mile (97 per sq. km.). Literacy 27.4 per cent.

DISTRICTS

(See under general article "Population" for names of districts, their population etc.).

There are now 16 Mahkuma Parishads, 120 Anchalik Panchayats and 2,570 Gaon Panchayats in the Plains Districts of the State. These Panchayats have covered 11,085 villages.

Number of Circles: In Assam Tahsils are termed as Circles: 67. Number of Municipalities: 17. Number of Town Committees: 29.

REORGANISATION OF ASSAM

In a statement issued on January 13, 1967, the Government of India had indicated their decision to reorganise the State of Assam. They held a series of discussions and consultations with the Assam Government and the parties directly concerned, as also with the leaders of various parties in Parliament. On 11th September 1968, the Government made an announcement on the reorganisation of Assam.

The Government have decided to undertake legislation to constitute an autonomous State within the State of Assam, comprising the districts of Garo Hills, Khasi Hills and Jowai. The legislation will also provide for the setting up of a high level advisory council for the north-eastern region as a whole to be designated as the North-Eastern Council, with a view to encouraging an integrated approach to the security and development of the region.



Each of the autonomous districts of Mikir Hills and North Cachar Hills will be given the option, to be exercised by a specified date, to join the autonomous State on the basis of a resolution adopted by a majority of not less than two-thirds of the members of its district council.

The Autonomous State will have a Legislative Assembly and a Council of Ministers. The subjects which will be transferred exclusively to the autonomous State include agriculture, forest and fisheries, education (including university education), communications (other than highways important to the State as a whole), medical and public health, local bodies and co-operatives, lands, mines and mineral development, medium and small-scale industries, administration of justice and prisons. Matters affecting tribal such as inheritance, marriages, social customs, appointment and succession of Chiefs would also be within the purview of the autonomous State.

The autonomous State will also have taxation powers in respect of the subjects assigned to it, including land revenue and agricultural tax, excise duty, taxes on mineral rights, taxes on goods and passengers and entertainment tax. The State will also be assigned its relatable share out of the sales-tax.

The executive power of the autonomous State will vest in the Governor of Assam who will act on the advice of the Council of Ministers of the autonomous State.

Bills passed by the legislature will be submitted to the governor for his assent and he will act on the advice of the Ministers of the autonomous State except where it relates to subjects concurrent to both the legislatures and where its provisions are repugnant to a law passed by the Assam legislature. The Government and legislature of Assam will have jurisdiction in respect of subjects of common interest such as State highways, major irrigation projects, flood control, navigation and major industries.

The legislatures of Assam and the autonomous State shall have concurrent powers of legislation in respect of a few subjects out of the Concurrent List, such as acquisition and requisition of property, transfer of non-agricultural property, registration of documents and recovery of public dues. Other subjects in the Concurrent List will remain with the State of Assam.

The hill areas of Assam including those constituting the autonomous State, will have representation in the Assam legislature as at present. In choosing the Ministers of the Assam Cabinet, adequate representation will be given to the areas forming part of the autonomous State and other hill areas.

The Lok Sabha adopted on Dec. 20, 1968 the motion seeking to refer the Constitution (22nd Amendment) Bill to create the autonomous State within Assam State to a joint select committee with instructions to report to the House by the first day of the next session.

The report on the Joint Committee was presented to the Lok Sabha in March 1969. The Committee amended clause 4 to clarify the powers of the President under a new article proposed to be inserted in the Constitution.

The Bill was introduced in the Lok Sabha on April 10 and was adopted on April 15. The Rajya Sabha passed the Bill on April 30.

The Bill will now be sent to the State Legislatures for ratification. Under the Constitution such a legislation can become an Act only if more than half the state legislatures ratify it. Once this formality has been completed the Home Minister will bring another Bill before Parliament giving details of the reorganisation scheme and the subjects to be transferred to the autonomous State. The whole

process is expected to take a few months and the autonomous State is expected to come into existence before the end of 1969.

COTTAGE INDUSTRIES

Main cottage industries: Sericulture and Weaving. Principal areas for Sericulture: Sibsagar, Nowgong, Goalpara, United Khasi-Jaintia Hills and United Mikir-North Cachar Hills, Lakhimpur and Kamrup districts.

Handloom weaving is done in most of the families in Assam.

AGRICULTURE

Agriculture provides livelihood to about 72 per cent of the total population of the State and contributes about half of the State income. The total area under food grains during 1967-68 was 2.14 million hectares.

Rice is the most important crop grown in the State. The area under rice is about 70 per cent of the total cultivated area. Maize is another food crop which grows well in Assam, particularly in the hills districts, but because of the prevailing food habit this crop is not extensively grown. Assam does not grow enough pulses to meet her requirement. Cultivation of other cereals like wheat is not undertaken extensively due to the unsuitability of the climate and soil.

Next to rice, tea occupying about 7 per cent of the total cropped area, is the most important crop of the State. Jute, sugar-cane, mustard and potato are other important cash crops of the State.

Production of important crops (thousand tonnes) for 1968-69 (provisional) is as follows: Rice 2,130; Wheat 5; Maize 13; Other cereals 3; Pulses 38 (Total food grains 2,189); Oilseeds 67; Sugar cane (Gur) 121; Potato 250; Sweet potato 30; Tobacco 8; Jute 779,000 bales; Mesta 27,000 bales and Cotton 6,000 bales.

LIVESTOCK AND POULTRY

Estimated output of livestock and poultry products for 1968-69: Milk (lakh mds.) 74.00; Meat (thousand tonnes) 7.4; Eggs (lakh nos.) 1,990.8.

Agricultural implements (1966): Wooden ploughs 14,11,210; Carts 1,07,260; Tractors 589; Irrigation pumps 384; Iron ploughs 18,168.

The livestock position is as follows: Cattle 6,519; Buffaloes 579; Sheep 108; Goats 1,561; Horses and Ponies 43; Other livestock 375. Total livestock 9,185. Poultry 9,878.

According to the 1966 livestock census, the cattle and buffalo population in the state are 6,519 thousands and 579 thousands respectively showing an increase of 1.1 per cent and a decrease of 0.7 per cent to the corresponding population in 1961. Another important livestock is goats which decreased from 1,886 thousands in 1961 to 1,561 thousands in 1966. The poultry population also showed a decrease from 9,907 thousand in 1961 to 9,878 thousands in 1966.

Source: (Economic Survey, 1968).

PLANTATIONS

Latest available data:

Plantation in the State: Tea.

Area under Plantation (Registered hectareage): 3,06,497.12.

Hectareage under cultivation: 1,72,141.12.

Number of Tea Plantations : 674 (covered under the Plantation Labour Act).

Total number of workers as on 30-9-1968 : 4,29,404.

Fisheries : *Variety of fish produced :* Raba, Katla, Mrigal, Mali, etc.

Assam State has met the fish seed demands from their own resources. Culture of mirror carps, scale carps etc. has become popular in the Hill Districts of the State.

FORESTS

The forest area occupies about 47.9 thousand sq. kilometres and covers about 39 per cent of the States' total area. Of the total forest area 37 per cent is under reserved forests. Area under different categories of forests (thousand hectares) during 1967-68 is : Reserved 1,653 ; Protected 28 ; unclassified 2,908 ; Total 4,589.

Main types of forest with some species of trees of economic importance occurring in them :

Evergreen forests, mixed deciduous forests, deciduous and dry deciduous forests, riverain forests, Savannah forests, swamp forests, bamboos and temperate forests containing sal, teak, hollock, holong, bansam, amari, gamari, ajhar, sissoo, simul, cane, bamboos, reeds and various species of medicinal importance.

Assam possesses one of the richest fauna in Asia and it is claimed that outside Africa, there is no part in the world with so many varieties of animals, birds, reptiles and insects. Rhinoceroses, elephants, wild buffaloes, bison and mithuns, swamp deer, sambhar, spotted deer, barking deer, tiger, leopards, black panther, king cobra, pink-headed duck and giant hornbill are some of the well-known specimens of wild life.

Five sanctuaries and two game reserves with a total area of about 523.79 sq. miles, are maintained by the Government Forest Department for the protection of the interesting and in some cases the numerically dwindling species. Kaziranga and Manas are the two most famous sanctuaries.

Main forest produce : Timber, firewood, bamboo, cane, lac, elephant tusks, thatch, stone, sand, drugs, incense and perfumes, fibres and flosses. Assam has probably the biggest bamboo and reed reserves, contributing 42 per cent of India's total output. The out-turn of timber and fuel respectively for 1967-68 (thousand cubic metres) is 402 and 430.

LAND REFORMS

Four schemes are under implementation and these will continue in the IVth Plan also.

1. *Consolidation of Holdings :* The aim is to consolidate and prevent fragmentation of agricultural holdings in the plains districts in order to have the way for increase in agricultural production. The consolidation of Holdings Act, 1960 was amended in 1966 to provide for compulsory consolidation of holdings. Consolidation of 4,000 bighas was expected to be completed in 1968-69 and the remaining 46,000 bighas are expected to be consolidated during the Fourth Plan period.

2. *Strengthening of Primary and Supervisory Land-Record Agencies for Collection of Agricultural Statistics :* This aims to ensure proper collection of agricultural statistics for formulation and implementation of agricultural plans by increasing the existing strength of Mandals and Supervisor Kanungos by 100 per cent and 50 per cent respectively. A scheme for recruitment of 1,461 Mandals and 70 Supervisor Kanungos has been continuing from the IIIrd Plan and will continue during the IVth Plan.

3. *Preparation of Tenants' and Adhiars' Record of Rights :* The scheme is for the preparation of correct and up to date records of rights essential for effective implementation of various land reforms measures. The scheme in the districts of Goalpara, Kamrup and Sibsagar has been undertaken with resettlement operations and has been completed. The scheme has been taken up in 1965 in Nowgong and Lakhimpur and in Darrang in 1968-69 along with resettlement operations but independently in Cachar.

4. *Resettlement of Landless Agricultural Workers :* During the 1st two Plans 2,081 families were settled in 49,500 bighas of Government waste land in Nowgong, Kamrup and Sibsagar districts. Nothing could be done during the Third Plan as no waste land was available. During the old Fourth Plan the programme was to resettle 2,700 families. In this 350 landless families have already been selected during 1968-69 for allotment of lands in Nakhuti area of Nowgong District. The scheme will continue in the Fourth Plan with a resettlement target of 2,475 families.

MINES, INDUSTRIES

The only minerals in Assam worked on a commercial scale are coal, limestone, petroleum oil and sillimanite. Coal output 487,000 tonnes (1967) ; limestone output 22,000 tonnes (1968), sillimanite output 2,554 tonnes (1968). The estimated value of mineral production in Assam (excluding petroleum, minor mineral and minerals declared as prescribed substances under the Atomic Energy Act 1948), was Rs. 16.9 million in 1967 which was less than Rs. 19.1 million in 1966. An oil refinery has already been set up at Gauhati.

Silk is manufactured in the Assam valley ; also cotton weaving prevails as a cottage industry, women playing a predominant part.

Tea is the main industry, but there is a large petroleum mining concern with Digboi in Upper Assam as the centre and also some coal-mines. There is a big match manufacturing concern at Dhubri. Boat-building, brass and metal and earthenware, limestone burning, cane and bamboo work, furniture making, sola hat, smithy, brick making, mustard oil pressing, rice and saw mills are other industries.

Statistical data as in 1965 (latest available) are as follows : Registered factories 1,397 ; Persons employed 83,700 ; Productive capital employed Rs. 972.9 millions ; Salaries, wages and benefits Rs. 134.1 millions ; Value added by manufacture Rs. 243.9 millions ; Capital employed per person engaged Rs. 11,614 ; wages and salaries per person engaged Rs. 1,600.

The following are the provisional figures of out-put in some of the selected industries for 1968 : Tea 207 million kilograms ; Sugar 6.7 million kilograms ; Match 3.91 million grosses ; Electricity 161.4 million kwh. ; Commercial plywood 3.6 million sq. meters.

Assam holds the premier position in the country in the field of oil production. An estimated reserve of 100 million tonnes accounts for 58 per cent of the country's known reserves. In recent years rich deposits of oil have been struck in Lakowa and Galeki in Upper Assam. Estimates of coal reserves in the State have been variously placed between 2,000 and 3,800 million tonnes which constitute about 3 per cent of the country's total reserves.

POWER

The hydro-power potential of Assam is estimated at 12 million Kw. During the Third Plan a sum of Rs. 417 million was spent for power. The amounts allocated for

power during 1967-68 and 1968-69 were Rs. 69 millions and Rs. 70 millions respectively. The Umtru Hydel Project has an installed capacity of 8,400 kw. The First stage of Umiyam Project and the Naharkatia Thermal Project completed in 1965 has installed capacities of 36,000 kw. and 69,000 kw. respectively. The Noonmati Thermal Plant has a capacity of 12,500 kw. During 1968 certain residual works in connection with Umiyam Hydel Project, Stage II and Kamrup Thermal Station were taken up. The other projects now awaiting completion are Gauhati and Garo Hills Thermal Projects.

The total installed capacity of the projects now in commission is about 145 m.w. In 1967-68 the per capita consumption of electricity in Assam was estimated to be 34 kwh against 45 kwh for India. Total generation of electricity in Assam in 1967 was 142.6 million kwh and in 1968 up to September was 161.4 million kwh. The number of electrified villages in Assam at the end of 1968 was 425.

INDUSTRIES

Gas-Based Industries : The two projects which have been decided to be taken up as part of the first phase natural gas utilisation programme are (1) a power project, with an installed capacity of about 50,000 k.w. near Nahorkatiya and (2) a fertiliser plant at Namrup near Nahorkatiya with production pattern 55,000 tons of user P.A. (Per Annum), 1,00,000 tons of Ammonium Sulphate P.A., 66,000 tons of Ammonia P.A., 82,500 tons of Sulphuric Acid P.A. Both these projects are in the public sector.

The Spun Silk Mill at : Jagiroad (Public Sector) has gone into production. The cement factory at Cherrapunji with a capacity of 250 tons daily, (State Govt. Undertaking) has already gone into production. Steps have been taken to expand its capacity to about 850 tons. Licences have been issued for the establishment and expansion of a number of other industries such as large paper and pulp industries, hard board, chip board, commercial plywood, timber seasoning units, steel fabrication and light engineering manufacture.

For manufacture of hard board a large unit has been licensed.

Handloom Industry

Handloom industry is an age-old cottage industry of Assam.

It is the largest and the most important cottage industry next to Agriculture, both in hills and plain districts. Most of the weavers of the State are women and they generally weave cloth for their domestic use in leisure time.

The handloom industry in the co-operative sector has been making steady progress during the Second and Third Plan period. From 664 societies at the beginning of the Second Plan period, the number of societies has gone up to 1,623 at the end of 1966-67. Similarly, the membership has gone up from 18,983 to 50,690 during the same period. The issue of Share Capital loan and Working Capital loan has also gone up from Rs. 1.18 lakhs and Rs. 5.67 lakhs in 1955-56 to Rs. 8.70 lakhs and Rs. 64.32 lakhs respectively at the end of 1965-66.

TRANSPORT

Much of the trade of Assam is carried by river. Steamer companies maintain fleets of vessels which ply to and from Neamat, Tezpur, Gauhati, Goalpara, Dhubri, Karimganj, Silchar and many other smaller stations.

From January 1958, the entire railway system in Assam has been made part of a new Zone of the Indian Railways—

the North East Frontier Railway. Pandu (Maligaon) near Gauhati has been made the headquarters of N.E.F. Railway.

Because of the slender surface link between Assam and the rest of India, air services are of great value to the State. Almost all the big towns—Tezpur, Jorhat, Dibrugarh, North Lakhimpur, Silchar, Dhubri and Gauhati are now served by daily scheduled flights. Pasighat and Along in NEFA have also been placed on the airmap.

The total length of motorable roads as on March 31, 1966, stood at 20,200 kilometres.

The length of roads under the management of Public Works Department was 20,678 km. in March 1968 out of which approximately 17,500 km. were motorable. Adding to this about 2,400 kms. of motorable roads under the management of the local bodies the length of motorable roads in the State in 1968 was around 19,900 kms. leaving a gap of 15,300 kms. to be constructed over the next 13 years or so.

At the end of 1967-68, the length of the nationalised road transport has increased to 2,989 kms. The gross capital investment in the nationalised transport as of March 1967 was Rs. 40.26 million, having a fleet of 724 vehicles. The State Transport carries on an average 30,000 passengers and 3,500 quintals of goods daily.

Number of vehicles both public and private in the State in 1967 (including Government and foreign) : Motor vehicles 2,275 ; motor cars 12,083 ; taxi cabs 432 ; buses 1,998 ; private carriers 7,490 ; public carriers 4,510 ; trailer 2,781 ; tractor 2,449 ; vehicles owned by local bodies 12 ; Government vehicles 11 ; auto-rickshaws 30.

CIVIL SUPPLIES

Latest figures :

The approximate monthly import requirements in tons of food-stuffs and other essential commodities are as follows:—Wheat 5,000 ; Salt 7,600 ; Sugar 5,500 ; Gur 2,000 ; Mustard Oil 3,000 ; Pulses 6,000 ; Paper 150 ; Cloth 10,000 bales ; Yarn 2,500 bales ; Iron & Steel 4,500 ; Cement 10,000 ; Misc. goods 15,000 ; Rice 42,000.

CO-OPERATION

The number, membership and working capital (in Rs. thousand) respectively by types of societies at the end of 1966-67 :

I. Credit Societies : 4,134 ; 3,60,555 ; 224,917.

A. Short and Medium term (a) State Co-operative Bank : 1 ; 2,995 ; 1,10,064 ; (b) Central Co-operative Banks : 9 ; 4,235 ; 48,811 ; (c) Primary Credit Societies : (i) Agricultural 3,773 ; 3,19,643 ; 33,760 ; (ii) Non-Agricultural 334 ; 27,986 ; 27,917.

B. Long-term—(a) Central Land Mortgage Bank 1 ; 1,031 ; 2,199 ; (b) Primary Land Mortgage Banks 16 ; 4,666 ; 2,166.

II. Non-Credit Societies 3,176 ; 2,27,547 ; 69,037.

III. All Societies : 7,310 ; 5,88,103 ; 2,93,954.

The outlays in the State Plan for 1968-69 and 1969-70 respectively in Rs. lakhs are : General 15 ; 45 ; Hills 10 ; 15.

EDUCATION

(For particulars about general education see under Educational Statistics.)

In the first two years of *ad hoc* Annual Plans (1966-68) the expenditure on education programmes under the Plan amounted to Rs. 401 lakhs. The allocation for 1968-69 was Rs. 160 lakhs under the General Plan and Rs. 78

lakhs in the Hill Plan. For 1969-70 the provision in the General Plan is Rs. 200 lakhs and in the Hill Plan Rs. 55 lakhs. In 1968-69 girls' education was made free up to class VI. In 1967-68 the total allocation on technical education for the plan scheme for general areas was Rs. 45 lakhs, subsequently reduced to Rs. 37.50 lakhs. In the annual plan for 1968-69 the plan allocation for the general areas was Rs. 25 lakhs only and the provision for 1969-70 is Rs. 40 lakhs.

LABOUR

Number of registered trade unions in December 1965 : 189. On the basis of returns received from 69 unions the total membership was estimated to be 1,21,195. No. of industrial disputes during 1967 and 1968 : 87 ; 25. No. of workers involved during 1967 and 1968 : 73,775 ; 16,149. No. of man-days lost during 1967 and 1968 : 1,82,026 ; 43,392. Average daily wages per day per worker in the following categories during 1968 : Carpenters : Rs. 6.29 ; blacksmiths Rs. 5.72 ; field labourers (men) Rs. 3.37 ; other agricultural labourers (men) Rs. 3.17 ; head men Rs. 2.13.

Employment in registered factories in 1967 : 81,893. Total employment in tea-industry on 31-3-1968 : 4,38,630. On 30th September 1968 the employment stood at 4,29,404.

COMMUNITY DEVELOPMENT

The C. D. programme aims at providing extension service for various development schemes taken up for implementation in the rural areas. There are now in all 163 development blocks of which 42 are in the hill areas. The expenditure on development programme amounted to Rs. 22.8 millions, Rs. 73.3 millions and Rs. 117.0 millions during the First, Second and Third Plan respectively. The expenditure during 1967-68 was Rs. 33.8 millions.

Achievements (1967-68) : Improved seeds distributed 1,350 tonnes; fertilizer distributed 3,696 tonnes; agricultural demonstrations held 6,992; improved implements distributed 6,856; Composite pits dug 20,444; improved birds distributed 12,587; drinking water wells constructed and renovated 1,802; adult literacy centres started 1,768; adult persons made literate 32,330; land reclaimed 7,723 hectares; area bunded and terraced 585; Roads constructed 910 k.m.

Panchayats : With the enforcement of the Assam Panchayat Act, 1959 the three tier Panchayat organisation came into existence. 2,581 Gaon Panchayats, 121 Anchalik Panchayats and 17 Mahakuma Parishads have been constituted covering all the plains districts of the State. The provision for 1968-69 in the annual plan was Rs. 5.00 lakhs.

HOUSING

During 1966-67 and 1967-68 the expenditure on housing was Rs. 18.31 lakhs, 47 houses and 486 tenements were completed. For 1968-69 a provision of Rs. 5 lakhs had been made. The outlay for 1969-70 is Rs. 6 lakhs. The schemes relating to low income groups, industrial labour, plantation labour, village housing and land acquisition and development will continue.

For the Hill Plan there was a provision of Rs. 4 lakhs for 1968-69. The provision for 1969-70 is Rs. 9 lakhs. 25 houses and 40 units of Harijans' quarters were expected to be undertaken during 1968-69. The programme for 1969-70 includes the completion of Harijan quarters and construction of additional 50 houses and 40 tenements under other schemes.

IRRIGATION

The Annual Plan allocation for 1968-69 for medium irrigation was Rs. 73 lakhs for the general areas and Rs. 10 lakhs for the hilly areas. For 1969-70 the provision is Rs. 100 lakhs and Rs. 19 lakhs respectively. Three schemes have been taken up for implementation, namely the Jamuna, the Sukhla and the Patra-Disa. Another scheme the Harguti Irrigation project at a cost of Rs. 40 lakhs in the Mikir Hills has already been taken up for execution. This and the Sukhla project will continue in the Fourth Plan. The Patra-Disa has been completed during 1968-69.

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

DIBRUGARH UNIVERSITY

It is a teaching & affiliating University.

Chancellor : B. K. Nehru, Governor of Assam & Nagaland.

Vice-Chancellor : Dr. B. R. Seth.

Registrar : Dr. A. K. Borkakoty.

Number of affiliated Colleges : 37.

Number of University Departments of Post Graduate Studies & Research : 12.

GAUHATI UNIVERSITY

Gauhati-14, Assam.

Vice-Chancellor : Dr. M. N. Goswami, M.A., B.L., Ph.D. (Cal).

Registrar : C. Das, M.A., B.L.

Teaching, Affiliating and Residential.

Subjects where provision exists for post-graduate and research :

Assamese, Philosophy, Economics, History, Education, Mathematics, Statistics, Botany, Commerce, English, Physics, Chemistry, Geology, Anthropology, Agricultural Botany, Sanskrit, Political Science, Bengali, Geography, Zoology.

Number of colleges affiliated : 90 (Permanently affiliated 18; Temporarily or provisionally 72 including one constituent college).

Number of students: Affiliated Colleges : 45,411, University Departments : 2,194; Constituent College (Law College) : 988.

Budget 1967-68.

Grant from State Government :

Annual recurring grant of Rs. 23,50,000.

Receipts : Rs. 1,28,48,698.

Expenditure : Rs. 1,17,55,546.16.

Budget Estimates (1968-69) : Income Rs. 117.91 lakhs. Expenditure Rs. 126.97 Lakhs.

NORTH-EAST FRONTIER AGENCY

HEADQUARTERS: Shillong, Assam. Area: 31,438 sq. miles (81,425.9 sq. kilometres); Population: 3,36,558.

The Agency is now under the administrative control of the Home Ministry.

Districts in the Agency with headquarters in brackets: Kameng District (Bomdila); Subansiri District (Ziro); Siang District (Along); Lohit District (Tezu); Tirap District (Khonsa).

FORESTS

About 60% of the land area is under forests. The reserve forests constitute, 1,779.32 sq. miles and proposed reserve forests 1,586.44 sq. miles. There are about 15,000 sq. miles of Unclassed State forests. Most of the forest area remains unsurveyed. In 1967-68, 1,19,375 C.U.M. of timber was extracted (the bulk of which is from reserved forests) and a total revenue of Rs. 92,46,819 was earned, as against Rs. 74,26,366 and Rs. 68,80,569.00 during 1966-67 and 1965-66 respectively.

NEFA has a rich fauna and flora. There are wild elephants, bison, buffaloes, tigers, leopards, various kinds of deer, bears, pigs and wild goats. Peculiar to NEFA are the following — takins, musk-deer, lesser pandas, clouded leopards and mountain goats. To the people of the Agency the 'Mithun' or 'Gayal' is the most important animal as it serves, apart from its religious and sacrificial significance, as a medium of barter.

The monsoon sets in from the May/June and continues till the end of September. The average annual rainfall at Bomdila is 40.12"; Pasighat — 229.05"; Tezu — 160.30" and Changlang 78.22". The snow line starts from about 13,000 feet altitude and the whole of the northern region along the international boundary is under snow during the winter months.

TRIBES

The Agency is inhabited exclusively by Hill Tribes. A broad list of the main tribes district-wise is given below:

Kameng District:—Monpa, Sherdukpens Bangnis (Yanoo and Khrodeng), Aka or Hrusso, Khowa or Bugun, Miji or Dammai, Khamba, Sulung, Bangro.

Subansiri District:—Tagin or Moya, Dafia or Nisi/Nishang, Apatani, Bangro, Mikir, Hill Miri, Sulung.

Siang District:—Adi (it has some 20 sub-tribes, some of them are almost treated as main Tribes), Khamba, Memba, Hill Miri, Idu Mishmi.

Lohit District:—Padam Hill Miri, Mishmi (Digaru or Taraon), Idu or Chulikata, Miji or Kaman, Singhpho, Khampti.

Tirap District:—Nocte, Singhpho, Tangsa, Wancho, Yobin.

About 50 distinct languages and dialects are spoken. Each tribe is divided into a number of exogenous clans. As a general rule, the tribes do not intermarry.

EDUCATION

Education in the Agency is of the basic type with due emphasis on crafts and agriculture. 167 schools have already been converted to basic pattern.

Upto the end of the primary stage, the mother tongue of the students is the medium of instruction in schools, and text books in various tribal languages have already been prepared upto Class I. Assamese will be the medium of instruction from Class IV onwards and it will also be introduced as a subject of study early in the primary stage. Hindi and English are also taught as compulsory languages from Classes III and IV respectively.

During 1964-65 there were 268 institutions distributed as follows: Higher Secondary 4; Higher English 4; Middle English 35; Lower Primary 212; Nursery 4; Training Institute 1; College 1.

During 1963-64 there were 611 teachers in 215 schools with a total enrolment of 11,750 students.

The most important aspect of the educational programme in NEFA has been the establishment and reorganisation of schools in the border areas.

COTTAGE INDUSTRIES

Regular Cottage Industries Training Centres have been opened at 22 places to impart training in weaving, spinning, tailoring, carpet-making, carpentry, wood-carving, cane and bamboo work, smithy, painting, sawing, soap-making and pottery. Rearing of silk and *endi* is demonstrated at sericultural farms at Pasighat, Changlang and Namsai. There are also 12 irregular centres.

As of March 1965, the total number of persons trained was 2,600. Expenditure during 1964-65 was Rs. 12.80 lakhs.

PUBLIC HEALTH

Figures for 1965-66: The number of patients treated throughout the Agency 236,000; Number of hospitals, dispensaries, health units 91; Number of doctors 134; Number of compounders 133; Number of nurses 140. There was one doctor for every 2,800 persons, a nurse for every 2,520 persons; one hospital dispensary for every 3,698 persons.

45 teams have been raised under the national small-pox eradication programme.

B.C.G. teams are touring the Agency area specially in Siang Frontier Division where the incidence of tuberculosis has given rise to concern. A 50-bedded T.B. hospital, the first of its kind, was opened at Margherita.

AGRICULTURE

Agriculture is the mainstay of the people of the Agency.

So far 43,610 acres of land have been reclaimed and developed for permanent cultivation, mostly for paddy and 18,000 acres of land have been brought under irrigation. The anticipated increase in food production is estimated at 13,000 tons. Tools and implements worth Rs. 4,72,000 have been distributed to the cultivators at subsidised rates. Nine agricultural and livestock farms have been established in various parts of NEFA for providing improved seeds, training farmers, and giving demonstration of improved methods of production.

Animal husbandry has been put on a scientific basis. There were in June 1965, 21 veterinary dispensaries and 51 veterinary aid centres. As on March 31, 1964, there were 12 cattle farms and 42 cattle upgrading centres in various parts of the Agency to help the farmer look after the cattle.

CO-OPERATIVE MOVEMENT

Most of NEFA tribes have a very strong social sense, and every village is in its own way a Co-operative Society. There were on June 30, 1968, 92 Co-operative Societies which included 47 Consumers' Co-operatives, 6 Multi-purpose Co-operatives, nine Marketing and Processing Societies, five Farming Cooperative Societies, two Thrift and Credit Cooperative Societies, two Industrial Co-operative Societies, one Dairy Co-operative Farm, 11 School Co-operatives, two Labour Co-operatives and 7 Transport Co-operatives. In addition to these there is a wholesale Co-operative store (Nefstore) at Pasighat with its sub-depots at Dibrugarh and Bhalukpong.

COMMUNITY PROJECTS

Forty-one Community Development and National Extension Blocks in the Agency cover 22,839 sq. miles with a total population of 2.86 lakhs.

COMMUNICATIONS

Physical achievements from 1951 to 1965 consist of roads (jeepable) 1,186.11 kilometres, mule paths 399.50 miles, porter track 2,235.50 miles, bridle paths 131 miles, improvement to roads 237.87 miles, improvement to porter tracks 416.50 miles.

BIHAR STATE

CAPITAL: Patna. Area: 67,196 sq. miles. Geographical area: 42.8 million acres (5.8 per cent of the area of India).

Total Population: 46,455,610 (1961 census). Density 694; Literacy 18.4 per cent. Population (1966) 52.1 million.

Administrative Divisions:—Patna, Bhagalpur, Tirhut and Chota Nagpur.

Districts with names of District Headquarters in brackets in each Division:

Patna Division: Patna (Patna); Gaya (Gaya); Shahabad (Arrah). *Tirhut Division:* Muzaffarpur (Muzaffarpur); Saran (Chapra); Champaran (Motihari); Darbhanga (Laheriasarai). *Bhagalpur Division:* Bhagalpur (Bhagalpur); Monghyr (Monghyr); Purnea (Purnea); Santal Parganas (Dumka); Saharsa (Saharsa). *Chota Nagpur Division:* Ranchi (Ranchi); Hazaribagh (Hazaribagh); Palamau (Daltonganj); Singhbhum (Chaibassa); Dhanbad (Dhanbad).

Number of Districts: 17; Number of District Boards: 17; Number of Municipalities (including Patna Municipal Corporation): 54; Improvement Trust: 4; Notified Area Committees: 45.

Names of towns with a population of over 50,000: Patna, Monghyr, Jamshedpur, Muzaffarpur, Gaya, Chapra, Bhagalpur, Arrah, Ranchi, Darbhanga, Dhanbad, Biharsharif, Katihar and Jamalpur.

(For names, area and population of districts see article on 'Population')

LARGE AND MEDIUM INDUSTRIES

For the development of industries in the State some of the major steps taken by the State Government include the establishment of The Bihar Industrial Development Corporation, Bihar State Agro-Industrial Development Corporation, Spun Silk Mill and Industrial areas.

Bihar State Industrial Development Corporation.
(Please see "State Corporations").

Bihar State Superphosphate Factory, Sindri.
(Please see under "Govt. Industrial Undertakings").

High Tension Insulator Factory, Ranchi.
(See under "Govt. Industrial Undertakings").

Electric Equipment Factory, Tatisilwai: An Electric Equipment Factory is being established at Tatisilwai near Ranchi, for manufacture of electrical

equipment such as power distributors, transformers, industrial motors and switchgears in collaboration with the G.E.C. of India.

The total estimated cost of the project is about Rs. 2.24 crores. The erection of the factory is likely to be completed soon.

Bihar State Agro Industrial Development Corporation.
(Please see under "State Corporations").

Spun Silk Mill: A Spun Silk Mill is being established at Bhagalpur at an estimated cost of Rs. 141.25 lakhs. The mill will have 3,000 spindles for manufacture of pure silk yarn and 420 spindles for manufacture of ordinary yarn.

The mill is expected to go into production sometime in 1970.

Industrial Areas: Industrial areas have been established at Adityapur, Ranchi and Patna.

Three more Industrial areas at Barauni, Bokaro and Patratu are also being established.

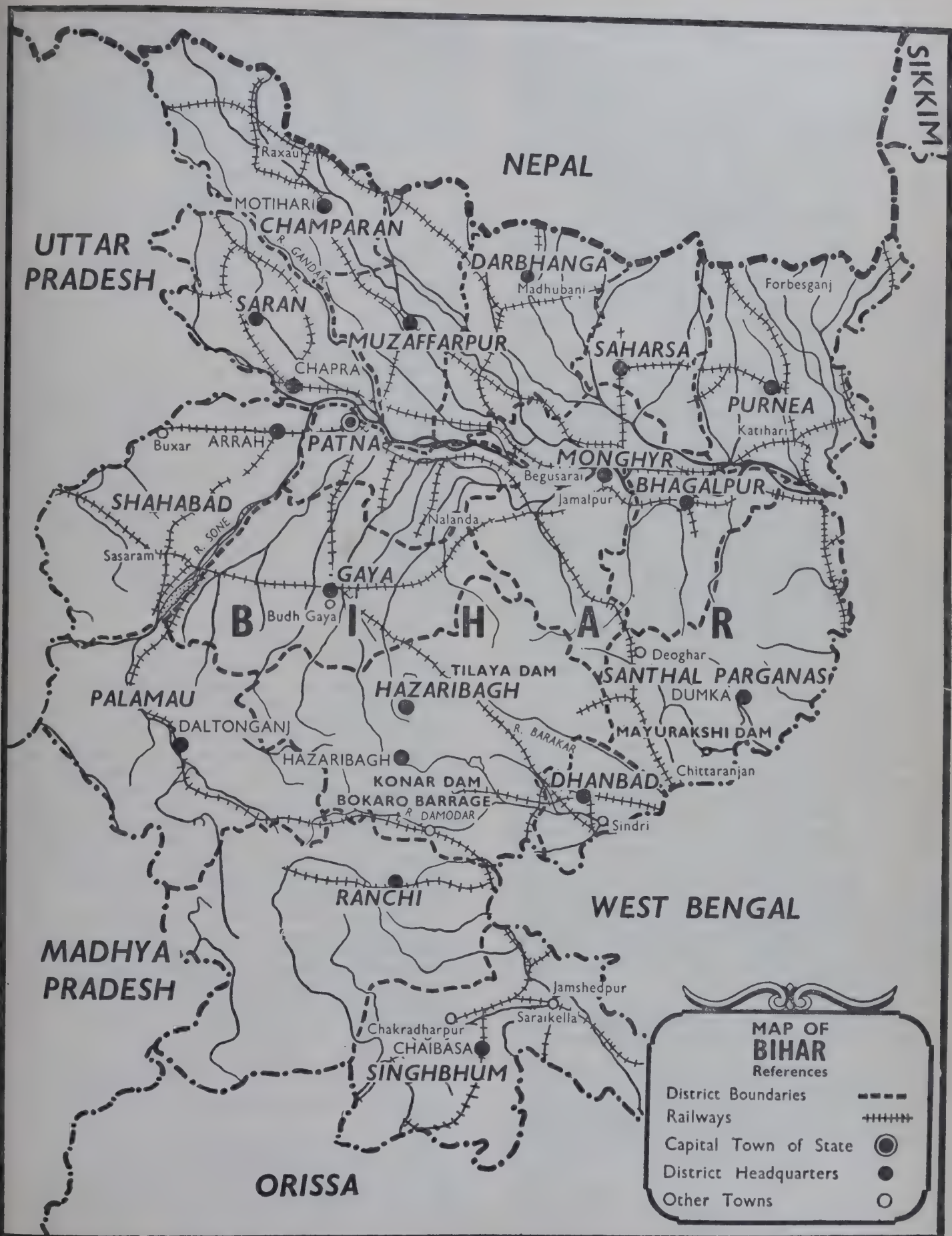
Industrial Estates and Workshop Sheds: Industrial Estates have been set up at Muzaffarpur, Bhagalpur, Purnea, Daltonganj, Tillaiya (Hazaribagh), Ramnagar (Champaran), Baroon (Gaya), Lakhisarai (Monghyr), Jasidih and Murliganj (Saharsa) during the Third Five Year Plan. In all these estates altogether, construction of 200 factory sheds of different sizes have been completed out of which 95 sheds have been allotted.

KHADI AND VILLAGE INDUSTRIES

The area of Bihar has been divided into 588 anchal-cum-development Blocks, out of these 440 have been covered by some kind of development activity under the Khadi and Village Industries. In 1967-68 Khadi and Village Industries in Bihar produced articles worth Rs. 9,65,25,000. The sales effected were Rs. 8,65,00,000. The total number of persons finding part time or whole time employment was 32,21,000 and the sum of Rs. 3,26,15,000 was distributed among them as wages. The number of Khadi Bhawans in the State is 497.

Industries other than the Khadi, which are being organised in Bihar are as follows:—

Ghani oil, hand processing of cereals and pulses, leather, gur khandsari, palmgur, non-edible oil and soap, handmade paper, bee-keeping, pottery, fibre, cottage match, carpentry and blacksmithy, gobar gas, limestone and gram-ekai.



The Industries which have made considerable progress are ghani oil, hand processing of cereals and pulses and bee-keeping. The ghani oil industry has 882 co-operatives which have produced oil worth Rs. 4,18,07,266 and given employment to 8,204 persons. The hand processing of cereals and pulses has 577 co-operatives which have produced rice worth Rs. 55,46,533 and given employment to 4,791 persons. The bee-keeping industry made a remarkable progress in the year 1967-68. 4,733 bee-keepers produced 1,36,515 kilograms of honey.

SMALL-SCALE INDUSTRIES

Common facility service centres, rural workshop production centres, model workshops and raw materials depots are some of the important schemes which are being implemented for the development of small-scale industries. Fifteen model workshops namely Blacksmithy and Mechanised carpentry units were set up during the Second and Third Plans.

Bihar State Small Industries Corporation.

(Please see under "State Corporations").

Handloom: Handloom is the most organised cottage industry in the State employing nearly 10 lakhs of persons annually on two lakh looms which are capable of producing goods worth Rs. 30 crores per year. A State Handloom Board has been set up for initiating a comprehensive scheme of organisation and technical improvement like setting up of dyeing and finishing units.

Handicrafts: During the Third Five Year Plan two production centres, in cane and bamboo, one each in paper machine and one centre for bell and brass metal have been set up. A craft museum has been located in Patna for display of handicrafts products. For supply of raw materials to handicrafts workers at reasonable prices, a raw materials depot has been located in Patna. An institute of industrial designs is functioning at Dighas which besides making research in designs, also conducts training courses for artisans and instructional staff of training centres.

Sericulture: Bihar is the largest producer of tassar in India and about one lakh persons in this State are engaged in different branches of this industry, from the rearing of silk worm to the finishing of silk fabrics. In 1967-68, 7.94 lakh disease-free layings were produced and distributed to 29,000 rearers free of cost; 1,31,928 kahans of tassars cocoons were produced, 31 Training programmes were organised, 2,430 persons were trained in tassar silk worm rearing, reeling and spinning of tassar and 473 reeling-cum-twisting machines and 473 improved spinning machines were distributed. The State Government has started three tassar marketing organisations in the district of Singhbhum, Santhal Parganas and Hazaribagh. Two silk Institutes at Bhagalpur and Chaibassa are run by the State Government to impart training in scientific method of sericulture.

Technical Education: Three industrial pilot projects, three women's industrial schools and three rural Industries projects for intensive development of rural industries have been set up.

Cluster Type Industrial Training Centres: There are 20 Cluster Type Institutional Training Centres in the State. 3,262 rural artisans have been trained so far and out of them 2,116 have settled in their own trade. Besides imparting training, these centres have also produced and sold goods worth Rs. 10,15,000 and Rs. 9,24,000 respectively.

Rural Industries Project: There are five such projects located at Nawadah, Pusa, Dumka, Buxar and Ranchi.

709 Co-operative Societies have been organised and these societies have produced and sold goods worth about Rs. 70,24,000. These societies have provided full employment to about 17,000 persons.

Assistance under the State Aid to Industries Act: A sum of Rs. 2,64,60,722 was sanctioned as loan under the State Aid to Industries Act during the three Plan periods and subsequently during the two annual plan periods.

MINERALS (Latest available)

Mineral	Unit of quantity	Quantity	Value Rs. '000
Apatite	Tonnes	5,111	228
Asbestos	"	356	49
Bauxite	"	3,95,865	3,624
Chinaclay (Saleable)	"	1,35,994	19
Chinaclay crude (Saleable)	"	1,810	19
Chinaclay (Processed)	"	35,692	2,441
Coal	'000 Tonnes	30,252	842,859
Copper Ore	Tonnes	458,981	24,227
Dolomite	"	5,375	49
Felspar	"	721	9
Fireclay	"	154,366	1,320
Iron Ore	"	5,380,974	78,446
Kyanite	"	49,409	11,180
Limestone	"	2,082,508	20,511
Manganese Ore	"	10,277	328
Mica (crude waste)	"	9,250	10,420
Mica (scrap etc.)	"	1,099	N.A.
Quartz and Silica	"	35,765	479
Steatite	"	4,358	23

The districtwise distribution of the minerals (names of districts in brackets) is as follows:—

Apatite (Singhbhum); Asbestos (Singhbhum); Bauxite (Ranchi, Palamau & Monghyr); Chinaclay (Singhbhum, Bhagalpur, Santhalparganas, Ranchi); Chromite (Singhbhum); Coal (Dhanbad, Hazaribagh, Palamau & Santhalparganas); Copper Ore (Singhbhum); Crude Mica (Hazaribagh, Gaya, Monghyr); Dolomite (Singhbhum, Palamau, Shahabad, Hazaribagh); Felspar (Hazaribagh, Gaya, Monghyr); Fire-Clay (Dhanbad, Hazaribagh, Palamau & Santhal Parganas); Iron-Ore (Singhbhum, Palamau); Kyanite (Singhbhum); Limestone (Shahabad, Palamau, Hazaribagh, Singhbhum, Ranchi); Manganese Ore (Singhbhum); Pyrite (Shahabad); Quartz & Silica (Singhbhum, Dhanbad); Steatite (Singhbhum).

The State Government has formed a body known as the Mica Syndicate to improve the mica industry in Bihar. The State Government is also taking steps to set up cement factories, and investigations are in progress for the search of fresh lime stone deposits to feed these proposed factories. The site of the proposed sulphuric acid plant has been shifted to Sindhri from Shahabad.

AGRICULTURE

Bihar, with 5.71 per cent of the Union's land area, has 10.59 per cent of her population. The proportion of total population depending on agriculture is estimated to be 77 per cent.

The total geographical area of the State is estimated to be 42.82 million acres out of which nearly 21.12 million acres are cultivated. Including multiple cropping, the total gross cropped area of the State is estimated at 26.77 million acres. The areas under culturable waste and fallow

lands are 1.38 and 5.12 million acres respectively. The gross area irrigated through different sources during 1964-65 was estimated at 5.19 million acres.

The acreages (in million acres) under principal crops during 1965-66 are estimated to be :—

Rice 12.74; Wheat 1.67; Barley 0.84; Maize 1.83; Arhar 0.43; Sugarcane 0.42; Tobacco 0.04; Potato 0.24; Jute 0.40; Chillies 0.06; Cotton 0.01; Total oilseeds 0.55.

The production of important crops during 1965-66 are as shown below (in million tons) :—

Rice 4.08; Wheat 0.40; Barley 0.18; Maize 0.66; Arhar 0.14; Sugarcane 5.92; Tobacco 0.01; Potato 0.77; Jute 0.89 (in million bales); Chillies 0.02; Total oilseeds 0.82.

Foodgrains production during 1967-68 is estimated at 8.1 million tonnes against 3.3 million tonnes during 1966-67.

Sugarcane is mostly grown in the districts of Champaran, Saran, Darbhanga and Muzaffarpur. Jute is cultivated in the districts of Purnea and Saharsa. Tobacco is grown in Muzaffarpur, Monghyr, Purnea and Darbhanga.

There are about 503 seed multiplication farms in the State for growing nucleus improved seeds for distribution to the growers. Fertilizers are distributed to the cultivators through Bihar State Co-operative Marketing Union which maintain a net work of sub-centres throughout the State. The consumption of fertilizers has now reached a level of about 1.50 lakh tonnes of nitrogenous fertilizers and 0.50 lakh tonnes of phosphatic fertilizers. Intensive Package Programme has been initiated in the districts of Shahabad, Purnea, Saharsa, Monghyr, Patna, Gaya, Saran, Champaran, Ranchi and Santhal Parganas.

FORESTS

Main forest produce					Quantity
Timber ..	..	..	..	..	1,18,68,000 cft.
Fuel ..	..	..	..	..	1,07,73,000 "
Bamboo ..	..	..	..	..	1,18,000 tons
Sabaigrass ..	..	..	..	..	1,15,000 mds.

The total area of reserved, protected and unclassed forests in Bihar is 11,883 sq. miles. There are two national parks, 16 games sanctuaries and 234 shooting blocks in the State.

1,58,000 acres of land has been planted up to the end of 1966-67 with bamboo over 49,000 acres, Eucalyptus 17,000 acres, Teak 15,000 acres, Sissoo 42,000 acres and other species 35,000 acres.

(See also under "Forests" for other particulars).

ROAD TRANSPORT CORPORATION

"Sultan Palace", Patna

The total fleet strength at the end of the Third Plan was 1,148 and the number of schedules was 845. The scheduled mileage was 1.02 lakhs. The corporation was to spend Rs. 87.26 lakhs in 1967-68 over strengthening the fleet and increasing schedules.

The Corporation serves 14 districts, 3 in North Bihar and 11 in South Bihar.

IRRIGATION

The water resources available and the present possibilities of utilising the same through various assured irrigation schemes in the three natural divisions of this State,

(i) South Bihar Plains; (ii) Chotanagpur and Santhal Parganas; and (iii) North Bihar, have been assessed on the basis of the rain-fall pattern and failure of crops and a master-plan of irrigation in Bihar has been prepared. The irrigation schemes aim at bringing 104 lakh acres of culturable land under assured irrigation.

Major and medium irrigation schemes are under the control of the Irrigation Department and the River Valley Projects Department.

By the end of Third Plan, total irrigation potential of 27.97 lakh acres was created from medium and State-owned major irrigation schemes against which the utilization was of the order of 26 lakh acres.

Due to the execution of the various irrigation schemes during the First and the Second Five Year Plan, 11 per cent of the total culturable land had been brought under assured irrigation.

By the end of the Third Five Year Plan period, about 5,00,000 acres of land had been reclaimed by drainage of chauras.

The Third Five Year Plan envisaged a total outlay of Rs. 12.82 crores over medium irrigation schemes besides major projects like the Kosi, the Gandak and the Sone Barrage. Four spill over schemes out of six and two new schemes out of nine taken up during the Third Plan for execution were completed during the Plan period. Third Plan expenditure was Rs. 12.71 crores.

In the flood control sector the Third Plan ceiling was to spend Rs. 2.20 crores over Flood Control Schemes excluding the Kosi Project and to protect an additional area of 3.50 lakh acres from ravages of floods. A sum of Rs. 3.17 crores had been spent during the Third Plan and an additional benefit of 3.62 lakh acres has been achieved.

Badua Dam : The Rs. 6.28 crore Badua Dam Project in Bhagalpur and Monghyr districts was completed by the end of the Third Plan.

The catchment area of the dam is a little over 185 sq. miles. Its reservoir would have a gross storage capacity of 1,04,000-acre feet of flood and rain water.

POWER

An initial provision of Rs. 79.55 crores including the sum of Rs. 20.04 crores earmarked for the power schemes of the D.V.C., was made in the Third Five Year Plan, against which the Bihar State Electricity Board spent Rs. 80.92 crores on its various schemes during the Third Plan period.

The major power generating schemes under execution of the Bihar State Electricity Board consist of (a) Patraru Thermal Power Station at Patraru in South Bihar (b) Barauni Thermal Power Station at Barauni in North Bihar, and (c) Subarnrekha Hydel Power station at Getalsud in south Bihar. The first two are already generating electricity. The progress of electrification up to the Third Plan is given below :—

Item	Achievement at the end of the First Plan	Achievement at the end of the Second Plan	Achievement at the end of the Third Plan
Diesel Stations (MW) ..	6,049	13,377	13,925
Thermal Stations (MW) ..	—	—	45.0
132 KV lines (in km) ..	—	—	964

Item	Achievement at the end of the First Plan	Achievement at the end of the Second Plan	Achievement at the end of the Third Plan
H. T. Lines (in km)	4,685	11,742	18,855
L. T. Lines (in km)	1,365	5,930	11,545
Substations:			
(i) grid substations (Capacity in MVA)	—	20	175.5
(ii) power substations (capacity in MVA) ..	12.5	105.95	218.70
Tubewells and surface wells energised ..	1,253	3,135	10,556
Towns and villages electrified	364	2,475	3,990

Patratu Thermal Power Station : In the first stage the Power Station will have an installed capacity of 400 MW consisting of four sets of 50 MW each and two sets of 100 MW each. In the second stage the capacity is to be augmented to 620 MW by addition of two sets of 110 MW each during the Fourth Plan period. Three sets of 50 MW each have already been commissioned. The total estimated cost of the 400 MW stage is Rs. 5,271.10 lakhs and for the extension Project is Rs. 3,700.00 lakhs.

Subarnrekha Hydel Power Station : The total installation will consist of two sets of 65 MW each. No sub-stational progress has been made except for investigation and design work. Work on intake structure has started. The scheme is expected to be completed in 1973-74. The estimated cost of this project is Rs. 1,290.00 lakhs.

Barauni Thermal Power Station : The total capacity envisaged under the scheme is 145 MW consisting of three sets of 15 MW each and two sets of 50 MW each. Three 15 MW sets have already been commissioned and the first 50 MW set is getting ready for being commissioned. The total estimated cost of the scheme is Rs. 1,914.00 lakhs.

Gandak Hydel Power Station : It is proposed to construct a power house with three sets of 5 MW each on the western canal of the Gandak Project. Civil work has commenced and detailed design is in progress. It is expected that the three units will be commissioned by 1970-71. The revised cost of the scheme is estimated at Rs. 517.90 lakhs.

Kosi Hydel Power Station : It will have four sets of 4.8 MW each. Civil works are complete and the erection of the power plant is in progress. The estimated cost of the schemes is Rs. 700.00 lakhs (revised). One set was likely to be commissioned by the middle of 1969.

Railway Electrification Scheme : With a view to augmenting the transportation capacity of the railways the programme of electrification of large sections of the S.E. Railway and the Eastern Railway was taken up. For supplying power to the various substations along the Rly. tracks, 160 miles of single circuit 132 KV line and 118 miles of double circuit 132 KV transmission lines and six stations were constructed. The work was completed during 1961-63. The cost of the scheme was Rs. 419.98 lakhs.

Maithon-Sultanganj Transmission Scheme : A 110 mile long 132 KV transmission line extending from Maithon to Sultanganj was constructed in 1961-62 in order to meet the demand for power in East Bihar region. Substations were also erected at Deoghar and Sultanganj during 1963-64. The revised cost of the scheme is put at Rs. 267.69 lakhs.

Transmission : For transmitting the electrical energy generated at Barauni, Patratu, Subarnrekha, Gandak and Kosi power stations, it is proposed to have a wide network of 220 KV and 132 KV transmission lines together with 220/132 KV and 132/33 KV grid substations at various load centres in the State. By the end of the Third Plan, 50 miles of 132 KV double circuit transmission line from Ramgarh to Hatia via Patratu and 70 miles of 132 KV double circuit transmission line connecting Barauni with Muzaffarpur were completed.

After the Third Plan, the Board has completed 132 KV single circuit line from Barauni to Purnea (120 miles), 132 KV single circuit line from Changil to Adityapur (10 miles) and commissioned 132/33 KV Grid Substations at Muzaffarpur, Hatia Karmnasa and Kendposi. A scheme to link up North and South Bihar at 132 KV by laying a cable over the Mokamah Bridge is in hand.

Rural Electrification : 3,990 villages and towns were electrified and 10,556 tubewells/surfacewells energised by the end of the Third Plan. A record number of 14,012 tubewells/surfacewells were energised during 1966-67 when there was widespread drought in the State. During 1967-68 also the Board energised 15,807 pumping sets in about 1,250 villages/towns. Thus the total number of pumping connections given upto March 1968 was 40,375.

Per Capita Consumption : The per capita consumption of electricity in Bihar increased from 41 units as at the end of the Second Plan to 60 units as at the end of the Third Plan.

LAND TENURE

At present all intermediary interests have been acquired by the Government. The Zamindari system in Bihar now stands completely abolished.

The Government has laid down a sliding scale for the assessment of compensation. Where the net income does not exceed Rs. 500, the compensation payable is twenty times the net income, and where the net income computed exceeds Rs. 1,00,000 it is payable at three times the amount subject to a minimum of Rs. 4 lakhs.

The total compensation is estimated at about Rs. 100 crores besides Rs. 51.25 crores payable as interest on the bonds. Of this, a sum of Rs. 15.79 crores in bonds, Rs. 7.53 crores by adjustment against Govt. dues and Rs. 7.76 lakhs in cash totalling Rs. 23.40 crores have been paid up to 1967-68.

Provision has also been made for ad-interim payment. A total sum of Rs. 19.64 crores has also been paid upto the period ending November 1968 on this account.

The assessment of compensation for mines and minerals has either to be fixed by agreement or by a tribunal appointed for the purpose.

As for funds to finance compensation, the proposal for Zamindari abolition in Bihar has been drawn up as a self-liquidating scheme.

The gross rental from the agricultural lands including cess, road cess and other miscellaneous demands in the State is about Rs. 9.53 crores, which is likely to increase further as a result of reclamation of waste lands and fixation of rent on unassessed lands.

During 1968-69 a provision of Rs. 2.47 crores had been made for relief purposes in case of natural calamity and distress and Rs. 60 lakhs towards distribution of loans. Out of this Rs. 50 lakhs have been spent to meet the committed liabilities in respect of Water Supply schemes undertaken during the drought of 1967. A team of officials of India Government have assessed the damages caused by October 1968 flood and have recommended to the Government to extend assistance to the State to the tune of Rs. 3,67,69,000 as grant and assistance of Rs. 1,36,98,000 as loan assistance to be spent on various relief measures.

A sum of Rs. 50 lakhs has been received as loan assistance from the Government of India.

COMMUNITY DEVELOPMENT AND PANCHAYATS

The Community Development Programme now extends over the entire State of Bihar. There are 587 blocks of which 131 are in Stage I while 175 and 281 are under Stages II and Post Stages II respectively. Besides the normal programme of all round development, special programmes like the Applied Nutrition and Rural Manpower schemes have also been implemented in 54 and 81 blocks respectively this year.

As in other States, the Panchayati Raj scheme in the State has also three tiers of local administration—Village Panchayats at the village level, Panchayat Samities at the Block level and Zilla Parishads at the district level. This Panchayati Raj Scheme is in force in three districts only of the State : Viz. Bhagalpur, Ranchi and Dhanbad.

CO-OPERATION

Figures as of June 1968.

Number of Co-operative Societies of all types—35,351 ; Membership—31.24 lakhs.

Types of Co-operative Societies and number of each type as on 30th June 1968.

Provincial and Central Co-operative Banks 29 ; other central societies 81 ; Co-operative Farming Societies (including Sarvodaya Samities) 339 ; Agricultural Credit Societies 16,500 ; Weavers' Co-operative Societies 1,166 ; Oilmen's Co-operative Societies 1,096 ; Fishermen Co-operative Societies 346 ; Co-operative Stores 600 ; Primary Marketing Societies 273 ; Salary Farmers' Co-operative Societies 263 ; Canegrowers Co-operative Societies 4,231 ; Milk Societies 218 ; Industrial Societies and other types of societies 10,209.

Weavers' Societies : No. of societies as on 30th June, 1968—1,166 ; value of goods produced Rs. 360.00 lakhs.

LIVESTOCK

According to the Livestock Census 1966, Bihar possesses the following livestock : Cattle 1,51,56,456 ; Buffaloes 36,54,364 ; Sheep 12,46,890 ; Goats 78,01,141 ; Pigs 6,46,248 ; Poultry 1,08,49,858 ; Horses and Ponies 1,15,828 ; Camels 122 ; Mules 1,519 ; Donkeys 32,810. Total livestock : 2,86,55,428.

Cattle Development : At present seven Govt. Cattle breeding farms and one Bull Rearing Farm are functioning in the State to produce improved bulls. In addition, 47 key village blocks, 10 large town A.I centres, 107 artificial insemination centres, 6 key village extension centres, three semen banks and two intensive cattle development blocks are functioning in the State for upgrading the local cattle, more milk yield and better draught performances. 208 improved bulls have been distributed in the Community Development Blocks for natural mating during 1966-67.

Piggery Development : For the development of pigs, a Piggery Development Unit and 15 Piggery Development Blocks are functioning. Besides, a Pig Breeding Farm-cum-Bacon Factory is being established at Kanke (Ranchi).

Sheep & Goat Development : Two sheep breeding farms are functioning in the State, one at Chatra and another at Gaya. Besides, 20 Sheep and Wool Extension Centres have been established for the production of quality wool and mutton. 49 rams and 308 bucks have been distributed in C. D. Blocks during 1966-67 for grading up the local sheep and goat respectively.

Poultry Development : For the development of poultry, birds of improved breeds are being introduced in the State through four range poultry farms, 21 poultry extension centres, 12 poultry development centres, 11 poultry farms at C. D. Block headquarters in the industrial belt, 92 poultry hatching and rearing centres, two intensive poultry development blocks and two intensive egg and poultry production cum marketing centres. A small poultry dressing plant has started functioning at Patna to meet the demand of dressed poultry meat and another is being established at Ranchi. 42,570 improved birds, 86,742 eggs, 60,777 day old chicks have been distributed in the State during the year 1966-67.

Disease control : 632 veterinary hospitals and dispensaries including 18 mobile veterinary dispensaries are functioning in the State.

Other Institutions : Bihar Veterinary College, Patna ; Veterinary College, Ranchi ; Livestock Research Station, Patna ; Animal Production Research Institute, Pusa ; Stockman Training Centre, Dumraon ; Extension Training Centre, Bhagalpur.

HEALTH SERVICES

The following particulars are for 1968-69 :

Allopathic hospitals 135 ; Allopathic dispensaries 895 ; Primary health centres 587 ; Beds in allopathic hospitals including primary health centres 13,466 ; Ayurvedic and Unani dispensaries 336 ; T. B. hospitals 1 ; Mental hospitals 2 ; Beds in T.B. hospitals 1,362 and in Mental hospitals 1,794.

Allopathic doctors 9,541 ; Nurses 752 ; Student Nurses 2,184 ; Lady Health Visitors 290 ; Dais/Nurse-Dais 2,650 (trained) ; Compounders 4,575 ; Ayurvedic and Unani doctors 336 ; Compounders in Government employment 691.

Number of Medical Colleges (Allopathic) 4 ; Dental Colleges 1. Annual intake of the medical colleges 630.

There is one Govt. T.B. sanatorium at Itki, two T.B. Demonstration Centres one at Patna and the other at Darbhanga, one Govt. Hospital at Koilwar, three private sanatoria, two at Ranchi and one at Dehri-on-Sone (Shahabad) and 28 T.B. clinics.

There is a leprosarium at Brambey near Ranchi with a provision of 150 beds. Two leper asylums one at Gaya and the other at Deoghar with bed capacity of 150 and 100 respectively are also functioning. The leprosy subsidiary centre at Monghyr with 30 beds is also functioning.

Under health schemes the programmes for the eradication of malaria and small-pox, and family planning have been intensified during the year 1968-69. During 1968-69, 587 primary health centres were functioning in the State.

LABOUR

Number of registered factories as on Dec. 31, 1967 : 14,136 ; number of workers employed : 2,51,727.

Number of employees covered by the Employees State Insurance Scheme as on March 31, 1968 : 63,500.

Number of Employment Exchanges during 1968 : 25 ; Employment Information and Assistance Bureaux 6 ; University Employment Information and Guidance Bureaux 4 ; Vacancies notified 36,816*.

25 welfare centres were opened till March, 1968 by the State Government to provide opportunities for cultural activities and sports and training in crafts for supplementing the industrial income.

HOUSING SCHEME

The progress of the various Housing Schemes since the inception of the Housing Department is given below :

Name of the scheme, provision, expenditure and physical achievement respectively are as follows. The provision and expenditure are given in rupees lakhs.

Subsidised Industrial Housing Scheme 145·27 ; 144·52 ; 3,307 ; Low-Income Group Housing Scheme 247·48 ; 245·59 ; 3,204 ; Slum Clearance Scheme 31·01 ; 25·56 ; 64 ; Middle-Income Group Housing Scheme 72·15 ; 54·80 ; 270* ; Land Acquisition and Development Scheme 38·65 ; 38·65 ; 250 acres of land acquired ; Housing Scheme for Scheduled Castes 24·51 ; 21·34 ; 32,319 ; Rental Housing Scheme † 12·20 ; 0·50 ; Housing Scheme for Scheduled Castes engaged in sweeping and scavenging etc. 0·57 ; 0·45 ; 48.

EDUCATION

The State Government provides free and compulsory primary education for all children of the age-group 6-11. At the end of 1965-66, there were 44,200 primary schools with 40·59 lakh pupils and 85,411 teachers. The number of pupils in the middle school, in the age-group of 11-14, was 7·22 lakhs. The number of high school attending pupils was 5·09 lakhs.

At the end of the Third Plan the percentage of the pupils in 6-11 age-group was 55·7.

POPULATION

(See article on "Population".)

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

BHAGALPUR UNIVERSITY

Bhagalpur.

Chancellor, Nityanand Kanungo ; *Vice-Chancellor*, Dr. Bisheshwar Prasad ; *Treasurer*, Satyendra Narayan Agrawal ; *Registrar*, Amarendra Narayan.

Bhagalpur University is a teaching and affiliating University.

The medium of instruction in all the non-language subjects for the Pre-University, 3-year Degree Course, B.A., B.Sc., B.Com., Examinations in Arts, Science and Commerce is Hindi provided that technical terms in English may be used for the present. The medium of instruction in non-language subjects for all other examinations is English.

Provision for teaching upto the Post-Graduate Standard exists in the following subjects:—(a) Hindi (b) Commerce (c) Rural Economics & Cooperation (d) Sociology (e) Labour and Social Welfare (f) Statistics (g) English (h) Political Science (i) Philosophy (j) Mathematics (k) Economics (l) History (m) Psychology (n) Physics (o) Chemistry (p) Botany (q) Zoology. There is also provision for research by scholars for doctorate degrees.

Number of Post-Graduate Departments : Arts 10, Science 6, Commerce 1.

Number of Colleges : *Constituent colleges* 3. *Affiliated* 44. Technical & Professional 5.

Number of students :—27,231 (Men 25,673, Women 1,558).

Budget Estimates (1967-68)

						Rs.
Income	..	..	..	..	..	1,01,96,192
Expenditure	..	..	..	..	..	1,15,04,155

Grant From The State Government (1966-67)

Recurring	..	..	..	..	Rs.	1,35,44,091
Non-Recurring	..	..	..	..	Rs.	18,74,546

UNIVERSITY OF BIHAR

Muzaffarpur.

Chancellor, Nityanand Kanungo ; *Vice-Chancellor*, Dr. P. S. Muhar ; *Treasurer*, Vacant ; *Registrar*, Dr. K. S. Varma.

The Bihar University is a teaching-cum-affiliating University.

Medium of instruction : Hindi upto Bachelor's degree in the Faculties of Arts, Science and Commerce.

Number of colleges affiliated : *Constituent Colleges* : 4 ; *Technical and Professional Colleges* : 6 ; *Affiliated Colleges* : 35.

Number of students : 41,640 (1966-67).

Income (1967-68 budget estimates) : Rs. 85,02,261 ; Expenditure Rs. 86,29,651.

MAGADH UNIVERSITY

Bodh Gaya

(Camp-Gaya, Bihar)

Nature : Teaching-cum-affiliating University.

Courses provided at present and Degree :—Pre-University Course in English, Hindi, Urdu and Bengali Composition. Principal Hindi, Urdu and Bengali, Sanskrit, Economics, Civics, Logic, Psychology, Pali, Persian, Geography, Domestic Science, Mathematics, Chemistry, Physics, and Zoology.

3 Year Degree Course in English, Hindi, Urdu, Bengali Composition. Principal Hindi, Urdu and Bengali, Sanskrit, Economics, Political Science, Philosophy, Psychology, Pali, Persian, Geography, Domestic Science, Mathematics, Chemistry, Physics, Geology, Biology, Botany and Zoology.

Honours Courses in English, Hindi, Urdu, Sanskrit, Economics, Political Science, Philosophy, Pali, Geography, Mathematics, History, Botany, Zoology, Chemistry, Physics & Psychology.

Technical Degree Course : B.V.Sc. and M.V.Sc. Courses in Veterinary Science.

Post-Graduate Course in English, Hindi, Economics, Mathematics, History, Philosophy, Physics, Chemistry, Botany, Zoology, Geography, Sanskrit and Prakrit, Political Science, Ancient Indian & Asian Studies, Applied Economics and Veterinary Science.

Courses in Law up to B. L. Degree : *University Departments and Constituent College* : Post-graduate departments in English, Hindi, Economics, Mathematics, History, Philosophy, Sanskrit and Prakrit, Political Science, Ancient Indian & Asian Studies, Applied Economics and Commerce, Geography, Physics, Chemistry, Botany and Zoology.

* As on 30th November, 1968.

† Started from 1961-62

Medium of Instruction :—English in Post-Graduate Classes and Hindi up to Degree Standard.

Number of Students : 21,195.

Chancellor, Governor of Bihar ; Vice-Chancellor, B. M. K. Sinha ; Registrar, K. P. Sinha.

KAMESHWARA SINGH DARBHANGA SANSKRIT UNIVERSITY

Darbhangha (Bihar).

Chancellor, Governor of Bihar ; Vice-Chancellor, Kumar Ganganand Sinha ; Registrar, Dr. S. Choudhary.

The University provides teaching in all branches of Sanskrit learning in both the Systems of Prachin and Navin from Madhyama upto Acharya Examinations (including Shiksha Shastri (B.Ed.) Acharya is the highest standard of teaching. Sanskrit is the official language of the University.

The subjects taught are :—Veda, Darshan, Vyakaran, Jyotish, Dharmashastra, Puran, Arthashastra, Sahitya and Ayurveda etc., etc. along with a comparative study of these with the advancement of modern allied subjects.

It provides higher researches in all the above mentioned branches of Sanskrit learning.

Number of Colleges : Government Colleges 4, Affiliated Colleges 32, Govt. Sanskrit High School 17, Affiliated High School 84 and Vidyalayas 300.

It awards degrees of Madhyama, Shastri, Acharya and Shiksha Shastri which are equivalent to B.A., M.A. and B.Ed. in the modern University and research degrees of Vidyavaridhi and Vidyavachaspati which are equivalent to the degrees of Ph.D. and D.Litt. respectively.

PATNA UNIVERSITY

Patna 5.

Chancellor, Governor of Bihar ; Vice-Chancellor, Dr. K. K. Datta ; Treasurer, Dr. R. K. Sinha ; Registrar, Sita Ram Prasad.

No. of Constituent Colleges : 10.

University Departments : Arts, Science, Medicine, Commerce, Education and Law.

Number of teachers in the University during 1966-67 : 700.

Number of students in the University (1967-68) : 12,346 (Men and Women).

The language of instruction and examination is Hindi in all undergraduate classes in the Faculties of Arts, Science and Commerce and Bachelor of Education examinations. Hindi or English is the medium of instruction in every subject other than languages for the Master's examinations in Arts, Commerce and Education. English is also the medium of instruction for the Master's degree in the Faculty of Science and all the examinations in the Faculties of Law, Engineering and Medicine.

Budget (Actual) : 1966-67

Income : Rs. 1,43,92,994. (This includes Recurring Rs. 1,03,24,861.41 and non-recurring Rs. 40,68,132.16.)

RANCHI UNIVERSITY

Ranchi

Chancellor, Governor of Bihar ; Vice-Chancellor, Col. A. F. Markham ; Treasurer : S. G. Minz ; Registrar, D. P. Varma.

The Ranchi University is a teaching-cum-affiliating University.

Medium of Instruction : Hindi upto Bachelor's degree in Arts, Science and Commerce. In the Honours and Post-graduate classes and rest of the Faculty the medium of instruction is English.

Number of Colleges affiliated : Constituent Colleges : Four ; Technical and Professional Colleges : Nine ; Other Affiliated Colleges : 26.

Number of students : 33,477 (1967-68).

Income : Rs. 1,41,94,557 (1967-68).

Expenditure : Rs. 1,49,20,006 (1967-68).

Grant from the State Government and U.G.C. Recurring Rs. 26,68,997 (1967-68). Non-recurring Rs. 26,75,403 (1967-68).

DELHI

AREA : 1,483.05 Sq. Kms. ; Pop. 35 Lakhs.

Delhi is a Union Territory. Has an elected Metropolitan Council consisting of 61 members including 5 nominated by the President of India.

The Lt. Governor is the Administrator who is assisted by 4 Executive Councillors (one Chief Executive Councillor and three Executive Councillors) appointed by the President of India on the recommendation of the Union Home Ministry.

The presiding officer of the Metropolitan Council is called Chairman of the Metropolitan Council.

The Union Territory has a High Court.

(Figures given below are the latest available.)

IMPORT OF ESSENTIAL ARTICLES

The following are the estimated quantities of certain selected commodities imported into Delhi Territory (monthly average in tonnes) for the calendar year 1966 :

Wheat 50,938 ; Gram 1,959 ; Rice 788, Pulses 1,027 ; Refined Sugar 8,325 ; Tea 360 ; Ghee, Cream and Butter 2,286 ; Dried Fruits and Nuts 4,357 ; Provisions 2,062 ; Spices 619 ; Steam Coal, Soft Coke and Hard Coke 1,00,233 ; Kerosene Oil ('000 litres) 9,505 ; Hides and Skins 372 ; Agra Stone 9,161 ; Cement 32,138 ; Chemicals 1,483 ; Face Cream etc. 22 ; Hair Oil 53 ; English Medicines 2,452 ; Soap 349 ; Shoe and Chappal, 212 ; Hardware and Cutlery 8,852 ; Photo Goods 123 ; Betel Leaves 56.

INDUSTRY

The main industries are : room coolers ; power presses ; electric motors ; amplifiers ; radio parts ; automobile accessories ; bicycle parts ; lathe machines ; drilling machines ; bicycle parts ; safety razor blades ; cotton mills ; hand and powerloom weaving ; hosiery ; pottery ; flour mills ; vegetable oil mills and expellers ; paints and varnishes ; rubber goods ; imitation jewellery ; copper and brass utensils ; wire netting ; sola hats ; leather goods, sports goods, tanning and fibre industry.

The total number of registered factories at the end of March 1967 was 5,542.

The total number of handlooms in Delhi is 1,000. The industry provides livelihood for about 5,000 persons, and the total production is estimated at Rs. 35 lakhs.

The prototype production-cum-training centre at Okhla Industrial Estate is an Indo-German venture. This will manufacture prototypes of machines and machine tools and train about 500 workers every year.

Industrial Estates

The Okhla Industrial Estate, seven miles south of Delhi is one of the biggest of its kind in Delhi. There are 35 factory sheds in Okhla Industrial Estate, Phase I and 45 factory sheds in the Okhla Industrial Estate, Phase II, 41 Sports Goods factories have also been set up at Okhla Industrial Estate. These factories are exclusively meant for sports goods factories. The items manufactured by the units in the Estate include amplifiers, radio parts, electric motors, room coolers, power presses, automobile accessories, bicycle parts, lathes, drilling machines, machine tools, safety razor blades, insulated wires and household and utility articles, sports goods and dolls etc.

In the Badli Industrial Estate set-up in the rural area, 7 sheds were constructed and occupied by the industrialists and are engaged in the manufacture of agricultural implements, stainless steel utensils, hospital equipment, time pieces, autoelectric cables, insulated cloth, processed nylon yarn and electrical iron clad switches.

Employment

According to 1965 figures there were 11,657 registrations (monthly averages) at the Regional Employment Exchange and 2,210 placings against 3,759 vacancies notified. The number of registrations on the live register at the close of 1965 was 76,993. The number of registrations for April 1966 was 9,296 and placings 1,997 against 3,767 vacancies notified. The total number of registrations at the end of the month was 73,018.

AGRICULTURE

Figures given below are for 1965-66 :

Total land : 365,598 acres ; area under forests : 3,497 acres ; area not available for cultivation : 1,45,892 acres ; other uncultivated land excluding fallow land : 6,794 acres ; fallow land : 11,183 acres ; net area sown : 1,98,232 acres ; total irrigated area : 95,258 acres.

Area in acres and production in tonnes respectively of each crop for the year 1966-67 are given below. Figures in brackets show production.

Rice 3,543 (987) ; Jowar 25,224 (3,244) ; Bajra 41,901 (1,100) ; Maize 3,761 (821) ; Wheat 80,920 (47,000) ; Barley 12,151 (1,173) ; Gram 27,885 (5,000) ; Sugarcane 7,815 (1,599) ; Chillies 876 (369) ; Oilseeds 2,033 (94) ; Cotton 699 (107) ; Tobacco 17 (15) ; Pulses 8,800 (1,240) ; Arhar 319 (48).

Land Reforms

The Delhi Land Reforms Act, 1954 provides for the abolition of proprietary rights and conferment of ownership on all tenants and subtenants from whom compensation would be recovered and paid to owners. Over 8,000 tenants of various categories have acquired Bhumidari rights in an area of about 38,000 acres.

The Delhi Land Reforms Act was amended in October 1956 to exclude areas controlled, notified, held, occupied or owned by the Delhi Improvement Trust from the purview of the Act.

The Delhi Land Reforms (Amendment) Act, 1959 removes some difficulties in the working of the Act and includes Improvement Trust areas excluded by the 1956 Act.

The Delhi Landholders (Ceiling) Bill passed in Aug. 1960, fixes the ceiling on land holdings at 30 standard acres for a family of five. Leases in future have been prohibited except by small owners holding less than eight standard acres and persons suffering from a disability. Future tenants will have a minimum term of five years. The maximum rent has been fixed at one-fifth of the gross produce.

Dairy, Poultry

It is estimated that there is one milch animal for every 52 or 53 persons. The annual average yield of a cow and buffalo comes to 14.41 quintals and 24.49 quintals respectively.

The annual average daily production of milk is estimated at 3,602 quintals.

According to the livestock census 1966, the total number of poultry stands at 1,37,398, out of which 8,241 are cocks ; 79,662 hen ; 47,597 chickens and 1,898 Ducks and other poultry. The number of improved amongst the fowls is 1,07,972 out of the total of 1,35,500 which reveals that improved varieties of fowls are becoming popular in the Union Territory of Delhi.

TRANSPORT

Delhi occupies a pivotal point in the network of national railways, highways and airways. It is one of the biggest railway junctions in the country. All the principal inter-State roads of significance converge on Delhi. It is also linked with important cities and foreign countries by air through its two airports, Willingdon and Palam.

The Delhi Transport Undertaking of the Delhi Municipal Corpn. has 880 buses operating on 56 routes. Total distance covered per day : 1,38,000 kilometres.

(See main article 'Roads' for more details.)

HEALTH

(Monthly Average 1964)

Birth rate 30.1 ; death rate 8.5 ; infant mortality per thousand live births : 73.0. Live births 7,442, still births 81.

Deaths : Caused by Small-pox 3 ; Dysentery and Diarrhoea 88 ; Respiratory diseases 395 and Injuries and suicides 59.

There are 35 hospitals and 87 dispensaries of the modern system of medicine, two Ayurvedic and Unani hospitals and 15 dispensaries and six Homœopathic dispensaries. The total bed strength is about 5,000.

EDUCATION

The number of recognised Higher Secondary Institutions during the year 1966-67 was 407 besides the 25 Special Schools (which prepare students for the Senior Cambridge Examination). Eleven New Govt. Higher Secondary Schools have been opened during 1967-68 in various parts of the Union Territory of Delhi including the rural areas.

The total expenditure incurred on education during the year ending 31st March, 1967 amounted to Rs. 8,81,74,610.

The number of all types of Institutions on General Education at Primary, Middle and Higher Secondary Stage was 1,860 during 1966-67 and the total enrolment in these schools was 731,091 in that year.

Out of 407 Higher Secondary Schools in Delhi during 1966-67, 246 were providing instructions in science subjects at the higher secondary stage. Since 1962, 18 text books have been nationalised in one or more than one edition.

COMMUNITY DEVELOPMENT

The village development scheme covers 277 villages. The entire rural area of Delhi is covered by the Panchayat Raj system. The Community Development Blocks presently comprise 277 villages. 194 Panchayats were functioning on 31st March 1967.

The total number of co-operative societies in the CD. Block areas on March 31, 1967 stood at 652 with a membership of 44,305 as against 679 societies with a membership of 44,260 during the previous year.

DELHI MUNICIPAL CORPORATION

The Delhi Municipal Corporation has 106 members including six aldermen.

An estimate of the party position including the six aldermen is as follows : Jan Sangh 56, Congress 41, Communists 2, Independents 4, S.S.P. 1, Republican 1, Vacant 1.

Mayor, Hansraj Gupta.

Deputy Mayor, Balraj Khanna.

Officials

Commissioner, R. N. Chopra, I.A.S.

Deputy Commissioners, J. N. Singh ; C. D. Bahri ; B. N. Seth.

Gen. Manager, Electricity Undertaking, J. M. Raina, I.A.S.; *General Manager, Delhi Transport Undertaking*, K. Kishore, I.A.S.; *Addl. Gen. Manager*, L. S. Titus, I.A.S., *Chief Engineer, Delhi Water Supply & Sewage Disposal Undertaking*, Balwant Singh.

Secretary, R. P. Parti.

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

DELHI UNIVERSITY

Delhi.

The University of Delhi is a teaching and affiliating University.

The University confers the following Degrees and Diplomas on students on passing the appropriate examinations :

Degrees : Ph.D. (Arts, Science, Law, Education, Medical Sciences and Social Sciences), M.A., M.Lib.Sc., M.Com., B.A. (Pass), B.Sc. (Hons.), B.Sc. (Pass), B.Com., M.Sc. (Home Science) in Rural Community Extension and Foods & Nutrition, M.Nursing, B.Sc. (Nursing) Hons., B.Sc. (Electrical, Mechanical & Civil) Engg., B.E. Tech., in Civil, Electrical & Mechanical Engg., B.Arch., M.Sc. in Civil Engg., M.B., B.S., M.Sc. in Medical Biochemistry (for non-medical students), M.D. (Physiology, Pharmacology, Bacteriology, Medical Biochemistry, Pathology, Anaesthesia, Paediatrics, Medicine, Obstetrics and Gynaecology), M.S. (Anatomy, Surgery, Ophthalmology, E.N.T.R., Orthopaedics), DSc., D.C.L., D.Litt. M.Litt. (Buddhist Studies, Linguistics, Hindi, Urdu and Sociology), B. Library Science.

Diplomas : D.T.C.D., Anaesthesia, Child Health, Radiation Med., Otolaryngology, Dermatology, Venereology, Med. Radio Diagnosis, Med. Radio Therapy, Obstetrics & Gynaecology, Dip. Lib. Sc., Dip. in Russian Language, Dip. in Hindi, Urdu, Punjabi, Modern Persian, Modern Arabic, Business Management & Industrial Administration, Post M.A. Dip. in Linguistics, Dip. in Hindustani and Karnatak Music, Dip. in French, German and Italian, Dip. in Pali Language, Occupational Psychology and Swahili, advanced Dip. in French & German.

Certificates : Cert. of Proficiency in Russian language, Cert. in German, Italian, Spanish, Swahili, Hansa, Tamil, Telugu, Kannada, Malayalam, Marathi, Gujarati, Hindi, Urdu, Bengali, Cert. in Translation (English-Hindi). Post-Diploma Translation Cert. in Russian, Cert. in Office Supervision, Cert. in Paleography (Urdu).

Medium of instruction : English.

No. of students (Aug. 1968) : 48,968 (including 20,619 women) ; Income (1967-68) : Rs. 1,32,35,796.80 ; Expenditure (1967-68) : Rs. 1,25,64,661.05.

Chancellor, Vacant ; *Pro-Chancellor*, M. Hidayatullah. *Vice-Chancellor*, Vacant ; *Pro-Vice-Chancellor*, Dr. R. C. Majumdar, *Registrar*, L. N. Welingkaar.

GOA, DAMAN AND DIU

CAPITAL : Panaji ; Area : 1,431 sq. miles (Goa 1,394 sq. miles ; Daman 22 sq. miles ; Diu 15 sq. miles). Pop. : 6,34,584 (1960 Census).

The Hindu population is estimated at 3,88,654 ; Catholics 2,30,997 ; Muslims 14,716.

All the three territories are situated practically within the areas covered by Maharashtra and Gujarat States. Goa is on the Konkan Coast ; Daman lies on the Gujarat coast at the entrance to the Gulf of Cambay ; and Diu is a tiny islet and along with the isolated spots, Gogola and Simbor, lies on the southern fringe of the Kathiawad peninsula.

The Goa region constitutes one district under the charge of a Collector, with headquarters in Panaji. The district is divided into two sub-divisions, namely, the north sub-division comprising Goa, Pernem, Bardez, Bicholim and Satari and the south sub-division comprising Ponda, Sanguem, Quepem, Salcete, Vasco and Canacona. The Daman region is also under the charge of a Collector while Diu is in charge of an Administrator.

Important towns : Panaji (Capital : Pop. 34,634) ; Margao (Principal business centre : Pop. 15,257) ; Mapuca (Pop. 8,260) ; Vasco da Gama (Pop. 6,254).

Other towns : Ponda, Pernem, Canacona, Quepem.

Rivers : Mandovi, Zuari, Terekhol, Chapora, Baga, Talpona, Sal and Galgibaga.

Ferries : Panaji—Betim (over Mandovi) ; Agacaim—Cortalim (over Zuari) ; Panaji—Aldona (over Mandovi) ; Dona Paula—Marmagoa (over Zuari).

HISTORIC AND RELIGIOUS PLACES

In Old Goa, about eight miles from Panaji, there are several convents, the most important among them being the Basilica of Bom Jesus, popularly known as the Church of St. Francis Xavier. The body of Goa's patron saint, Francis Xavier is kept there. Not far from this Church are the Cathedral Sé Convent built between 1562 and 1619, the Convent of St. Francis Assisi, completed in 1667. At Pilar, five miles from Panaji, is located the noted Pilar Seminary. The exposition of the Body of St. Francis Xavier was held at Bom Jesus Basilica in December 1964.

Ponda taluka is well-known for famous Hindu temples which house family deities of multitudes of Goans. Noted among these are the Mangesh Temple, a small but elegant

structure situated on the side of a hill at Priol with a majestic tower at its entrance, and the Shantadurga Temple at Quela, with a triple image of Vishnu, Shantadurga and Siva. At Bandora are located temples of Mahalakshmi and Nagesh.

HISTORIC DATES

These are given in the previous edition of the Directory.

INDUSTRIAL DEVELOPMENT

Since liberation about 362 Small-Scale Units manufacturing consumer and capital goods have been registered with the Department of Industries. In order to encourage establishment of Small-Scale Units many incentives like managerial subsidy, matching share capital to Industrial Co-operatives, loans on easy terms have been announced.

In order to overcome the difficulties of land and factory sheds the Industrial Development Corporation, set up in 1966, built up 30 sheds and developed plots in the Government Industrial Estate at Corlim presently given to prospective industrialists on lease basis. One more Industrial Estate at Margao is being developed and 15 constructed sheds will be allotted to industrialists soon.

In the large scale sector, 12 major projects have been licensed. These include textile mills, pig iron plants, pelletization plants, fertilizer project, brewery project etc. Total investment contemplated in these projects will be around Rs. 87.52 crores and will provide employment to about 6,000 people.

BANKS

State Bank of India has, since liberation, opened eight branches in Goa in the prominent cities like Panaji, Vasco, Margao and Mapusa. Some of them are located in the interior towns.

Other national Scheduled Banks have opened their branches all over Goa. Goa State Co-operative Bank also has opened four branches and five sub-branches in the Union Territory of Goa, Daman and Diu with its head office functioning at Panaji. Besides, several local Urban Banks are also operating in places like Mapusa and Panaji.

The Life Insurance Corporation of India operates in the Territory.

AGRICULTURE

Net area sown in Goa, Daman and Diu is 68,628, 3,636 and 362 hectares respectively. The food crops that are commonly grown include rice, nachini, and pulses. Vegetables of all types are grown as rainfed crop in Khariff and as irrigated crop in Rabi season. The main commercial fruit crops grown in Goa are coconut, cashewnut, betelnut (areca-nut) and mango. The other common fruits available in this Territory are pineapple, jackfruit, breadfruit, various types of citrus, papaya and bananas.

Mangoes and pineapples are canned in Goa and exported to the other parts of the country and also abroad. Pineapples are mostly utilised for canning industry.

In Goa rice is the predominant crop and occupies about 13 per cent of the cultivable area. The annual normal production of rice is about 50,000 to 60,000 M. tons and the consumption is estimated to be about 73,000 M. tons. In order to meet the deficit of 20,000 M. tons of rice, the Department of Agriculture introduced in 1966 for the first time high yielding varieties of paddy.

The area covered and the yield obtained are as under :—

Season/Year	Taichung	Additional yield obtained
Khariff 1966	3,100 acres	2,000 M. tons
Waingan 1966-67	2,929 acres	3,000 M. tons
Khariff 1967	9,500 acres	10,000 M. tons
Waingan 1967-68	11,775 acres	11,000 M. tons
Khariff 1968	14,200 acres	14,000 M. tons (expected)

Another high yielding variety of paddy introduced recently is I-R-8. This variety has been found more suitable for this tract, and is specially recommended during Khariff season. Taichung N-I is found more suitable during Waingan season.

In Daman also rice crop is grown mainly during Khariff season. Taichung was introduced there in Khariff 1966 in an area of 60 acres. During Khariff 1967 about 500 acres have been brought under cultivation. In Diu no rice crop is grown while bajra occupied about 1,000 acres out of 1,300 acres of cultivable area. In Rabi season, wheat crop is grown in Daman (500 acres) and Diu (100 acres).

Ragi (Nachini) is grown in Goa, in hilly areas, in an area of about 5,000 acres. Maize (hybrid) occupies about 250 acres, while groundnut, legumes and pulses cover together about 1,000 acres.

There is wide scope for sugarcane development in Goa. This crop covers about 800 to 900 acres of land and it is proposed to bring an additional area of 1,000 during the planting season of 1968-69 under new variety Co. 740. Due to this, jaggery production will go up from 70,000 lumps of jaggery to 1,40,000.

Tapioca is a subsidiary crop which is being popularised, especially in the coconut gardens.

Green manure crops such as Dhaincha, Gliricidia and Sunhemp, are widely used for manuring coconut trees.

Comunidades : A large part of the cultivable lands belongs to village communities, popularly known as comunidades which are a type of agricultural co-operatives. There are a number of such communities in each of the 11 administrative divisions—31 in Ilhas, 40 in Salcete, 39 in Bardez, 14 in Mormugao, 28 in Ponda, 21 in Bicholim, 24 in Quepem, 12 in Pernem, 7 in Sanguem, 2 in Satari and 7 in Canacona. The Land Reforms Commission has suggested in its report that their administration be turned over to Block Development officers.

MINERAL ORES

Goa has vast mineral wealth and abounds in scenic beauty. Export of manganese and iron ores is the backbone of Goa's economy and has been a valuable foreign exchange earner.

The main operational centres are Bicholim, Kudnem, Pali, Pailgao and Sirigao. There are as many as 431 mines producing manganese and ferromanganese ore and 326 producing iron ore. The mining method adopted in almost all the mines in Goa is open-cast and benching system. The usual percentage of iron content in these ores varies between 55 and 65. The high grade hematite ore containing about 68 per cent of iron and magnetite also occur in some places.

The manganese ore deposits found in Goa are Pyrolusite and Psilomelane. Most of these deposits occur in pocket formation and are mainly located in southern parts of Sanguem and Quepem talukas. Mines under exploration during 1967 : Iron ore 78 ; ferro-manganese 113 ; manganese : nil ; total 191.

Production during 1967 (metric tons): Iron ore 67,50,511; ferro-manganese 24,297; manganese 18,485.

Exports in metric tons during 1967: Iron Ore and black iron 69,53,253; Ferro-manganese 1,17,304; Manganese 1,17,292.

Mormugao harbour, one of the finest natural harbours in the country, is the main outlet for the ore and has a vast hinterland in Mysore and Maharashtra States, and plans are under way for extensive dredging of the harbour to develop it into a first rate port.

COTTAGE AND SMALL SCALE INDUSTRIES

Goa has very few cottage and small scale or even large industries. Some of these are: ornamented wood works (Cuncolim), cashew-nut peeling-packing factory (Bicholim), umbrella factories (Piedade and Margao), soap factories (Bicholim and Mapuca), handloom factory (Aldona), candle factory (Margao) and pottery works (Bicholim). A Small Industries Service Institute has been set up in Margao and Department of Industries has been attached to the Secretariat in Panaji for promoting projects for rapid industrialisation of the Territory.

A Handicraft Emporium has also been opened in Tourist Hostel, Panaji, where various handicraft articles are displayed for sale.

A capital outlay of Rs. 20 lakhs has been sanctioned for the rural development projects.

EDUCATION

Four Arts and Science Colleges, one Commerce College and one Secondary Teachers' Training College in Goa have been started by private societies since liberation. Govt. has also set up 1 Arts and Science College at Daman, since June 1966. A Polytechnic leading to diploma courses in civil, mechanical and electrical engineering has been started since June 1963. Also an engineering college providing facilities for degree courses in civil, mechanical and electrical engineering has started functioning since June 1967. The old Goa Medical School was upgraded into a Medical College providing facilities for M.B.B.S. course since June 1963. The School of Pharmacy was also upgraded into a Pharmacy College leading to the degree of B.Pharm. since July 1963.

Two Primary Teachers' Training Colleges are functioning in the Territory. One Foodcraft Centre has also started functioning at Alto de Porvorim, Bardez taluka.

Free and compulsory education has been introduced upto Standard IV in primary schools. Education is also made free in this Territory upto Standard VIII.

There were 842 Govt. and 65 non-Govt. Primary Schools, with a total enrolment of 86,201 students (Std. I to IV) during the year 1967-68.

The number of middle schools during 1967-68 was 240 which includes 39 non-Govt. middle schools. The total enrolment in all these middle schools was 33,979 students in Standards V to VII.

In the field of secondary education the Grant-in-aid Code has been introduced as per the pattern followed in Maharashtra State. There were 155 schools catering to the need of high school education during the year 1967-68 with a total enrolment of 20,713 students from Standards VIII to XI.

TRANSPORT AND COMMUNICATIONS

There is a direct train service between Vasco da Gama and Poona.

Mormugao, the chief port described as the "Gateway of Goa," is one of the major harbours on the west coast of India. It permits ocean-going vessels of various sizes from all parts of the world, but ships mainly from Japan, America and Europe call at the port to take cargo of iron and manganese ore. Coastal steamer services operate between Bombay and Panaji and Bombay and Mormugao. Road transport services between Panaji and Belgaum via Anmod, to and from Savantwadi via Doddamarg and between Betim and Poona and between Hubli and Panaji have also been introduced. Goa is criss-crossed by as many as half a dozen rivers and rivulets, and internal waterways are being developed fully for transport of men and goods. Bridges across Mandovi and Zuari rivers at Panaji and Cortalim have also been planned. A bridge across the Diu creek at Tad, about three miles from Diu, which links Diu with the mainland of India has been constructed.

The treacherous stretch of nearly 50 miles of road from Ponda to Anmod, including the treacherous ghat section, was repaired, widened and asphalted during the early part of 1963 in a record time of six months enabling speedier traffic on one of Goa's important road outlets connecting it with Belgaum.

There are at present 2,440.189 kilometres of roads in this Territory of which 1,203.650 kilometres are village roads. Nearly 50 per cent of Government roads have black-topped surface.

The West Coast Highway, linking Bombay with Cape Comorin, is expected to be completed shortly, as far as the Goa portion is concerned, to the extent of 140 kilometres.

Construction of a major bridge over Mandovi linking Panaji to Betim has been started and it is expected to be completed by the end of 1969.

Postal and telegraphic facilities: At present there are 123 post offices in Goa out of which, 53 are provided with telegraph facilities. All towns with more than 2,000 population are proposed to be covered with one post office each.

PRESS

Newspapers: *Dailies:* English 1, Marathi 2, Konkani 1, Portuguese 1; *Weeklies:* Konkani 2, Portuguese 2, English 1; *Fortnightly:* Konkani 1; *Monthlies:* English 2, Marathi 2; Portuguese 2, Konkani 1.

DAMAN

Total area 22.05 sq. miles; Population: 22,390 (1961 census), mostly of Gujarati extraction.

There are some very interesting historical relics here such as the old forts and a few surviving churches reminiscent of the old times.

DIU

About 150 miles to the north-west of Daman lies the tiny islet of Diu off the southern coast of Kathiawar. It is a small town separated from the mainland by a narrow arm of the sea. Dependent on it and surrounded by the territory of Junagadh is the enclave of Gogola and also the island and fort of Pani Cota in the bay of Simbor.

Diu is reached from Bombay by the Western Railway via Viramgam and Delwada. Access by sea is easier and more rapid but there is no harbour.

Area: 15 sq. miles. The population is 17,480 (1961 census).

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

DADRA AND NAGAR HAVELI

Headquarters :—Silvassa.

Administrator : Nakul Sen, I.C.S.; *Collector* : M. S. Dayal, I.A.S.; *Secretary* : N. M. Kamdar.

Area : 489 sq. kms. ; Population : 57,963 (29,524 Males, 28,439 Females as per 1961 census); Sex Ratio : 963 females per 1000 males; Density : 119 per sq. km; Literacy : 9.5 per cent.

The Union Territory of Dadra and Nagar Haveli is situated at 500 feet above mean sea level.

The major occupation of the population of this Territory is Agriculture. The rainfall for this Territory is 1,941.9 mms. spread over 69 days in 5 months. The judiciary of the Union Territory is under the jurisdiction of the Bombay High Court. The Varistha Panchayat which is the apex advisory body of the panchayat administration has 21 elected members.

FINANCE

During the year 1968-69, the Territory had a budget provision of Rs. 1,09.88 lakhs (Plan 34.95 lakhs; Non-Plan 37.05 lakhs, Centrally sponsored Schemes 37.88 lakhs).

AGRICULTURE

An area of 16,266 hectares is under food and non-food crops while the remaining area is under forest and grass. The major food crop is paddy. The area of paddy under intensive cultivation was 1,209 acres. The total quantity of improved seeds distributed is 36 tonnes of paddy and nine tonnes of wheat. The area under Rabi campaign is 308 acres (wheat). Importance is given to the development of fruit cultivation. There is one seed-cum-demonstration farm at Silvassa, whose area is 52.50 Acres.

FOREST

Forest occupies 43 per cent of the total area. During the year Teak and Khair species were planted in 20 hectares. Bamboo plantation was done in four hectares.

Six kms. of roadside were planted with Eucalyptus. There are two wet nurseries in this Territory.

CO-OPERATION

Two societies were registered during the year bringing the total number of co-operatives to 18 with 3,308 members. The administration has allotted plots to the Government Co-operative Housing Society. Financial assistance to the extent of Rs. 10,500 has been granted to the co-operative institutions during the year 1968-69 (up to November 1968).

EDUCATION

Twenty-one primary schools and one pre-primary school were opened during the year 1968-69. The total number of the schools at the end of 1968-69 was 129 and 4. The total enrolment has increased to 6,447 from 5,757. One Government High School was opened thereby increasing the No. to 4. The enrolment increased to 564 from 379. Post-Matric scholarships as well as lower income group scholarships to the extent of Rs. 8,210 were given to deserving candidates. There are two Adivasi Hostels, one at Silvassa for boys with 108 inmates and another at Khanvel for Girls with 17 inmates.

POWER

The total no. of villages electrified is 3. The number of consumers during the year 1967-68 was 623 (569 Domestic, 35 commercial, and 19 Agriculture).

INDUSTRIES

An industrial estate is rapidly coming up near Piparia, about 2 kms. from Silvassa. By now 94 units have been registered as small-scale units in the field of pesticides, chemicals, plastics, opticals, wood industry, automobile parts, manure mixtures, mineral products, aromatic chemicals and perfumes, engineering products, etc. There are also textile and processing units.

GUJARAT

CAPITAL : Ahmedabad.*

The State of Gujarat came into being on May 1, 1960.

Area : 187,091 sq. kilometres. Population : 20.63 million (1961 census). See "*Population*" for detailed 1961 census figures.

There are 19 Districts and 186 Talukas. The number of municipalities is 59 (including Ahmedabad Municipal Corporation).

Districts with headquarters in brackets are as follows :—

Ahmedabad (Ahmedabad), Baroda (Baroda), Banaskantha (Palanpur), Broach (Broach), Mehsana (Mehsana), Kaira (Kaira), Panch Mahals (Godhra), the Dangs (Ahwa), Surat (Surat), Sabarkantha (Himatnagar), Jamnagar (Jamnagar), Bhavnagar (Bhavnagar), Amreli (Amreli), Junagadh (Junagadh), Kutch (Bhuj), Rajkot (Rajkot), Surendranagar (Surendranagar), Bulsar (Bulsar), Gandhinagar (Ahmedabad).

Gujarat State has a unicameral legislature. The strength of the Legislative Assembly is 168. The State sends 11 members to the Rajya Sabha and 24 to the Lok Sabha.

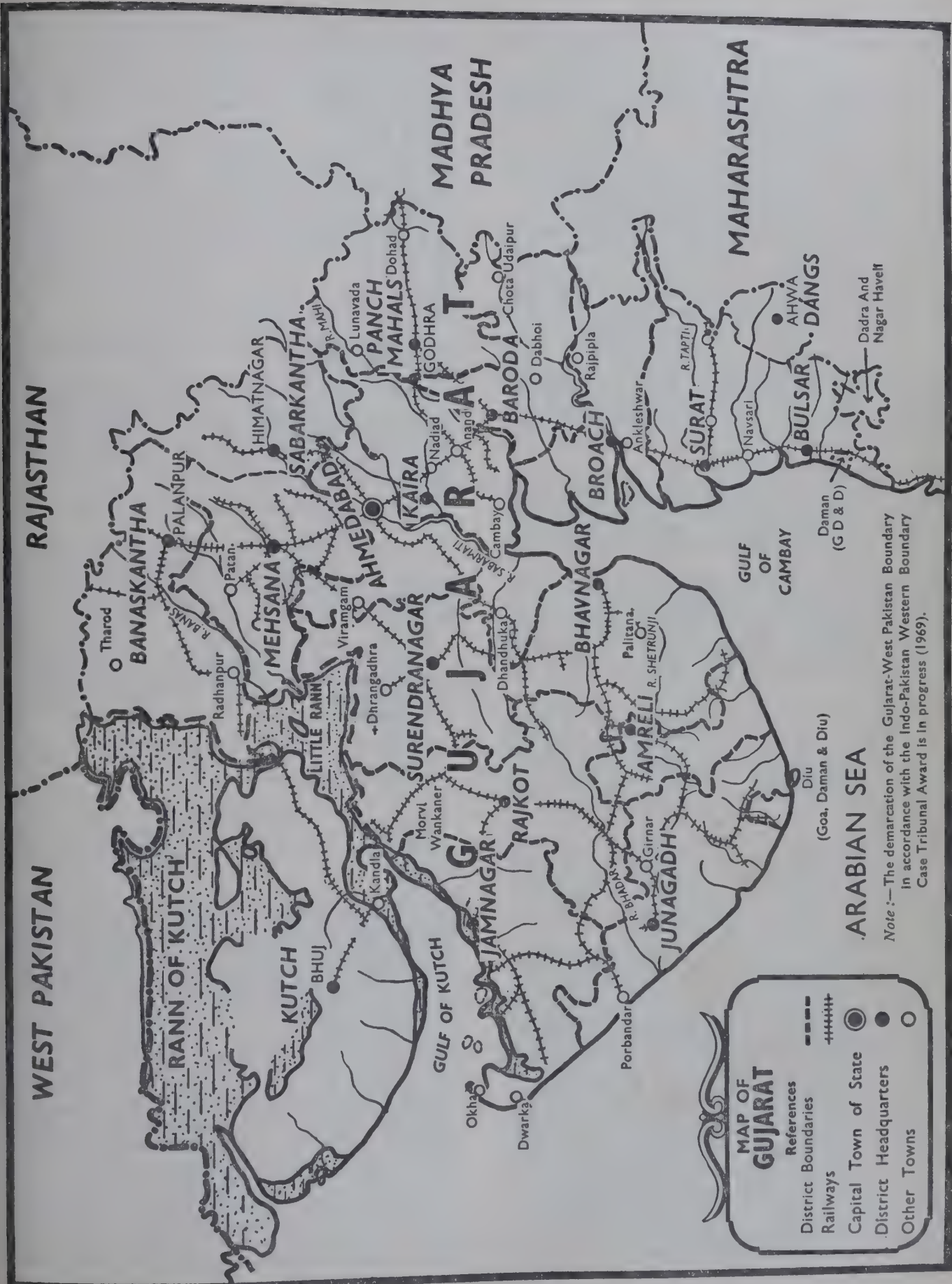
Though the State has fertile land it is deficit in food to the extent of 1.8 million tons a year. Its resources of industry and power are at the present time low. There is also a surprisingly high percentage of backward and Scheduled Classes and Scheduled Tribes. They constitute 93 per cent of the population of Dangs, 53 per cent in Surat, 38 per cent in Panch Mahals, 47 per cent in Broach and 27 per cent in Baroda. One bright feature is the existence of mineral oil in the Ankleshwar, Kalol and Cambay region.

Gujarati will be the language of administration, law courts and university, and Hindi for communication with the Union Government.

At current prices the per capita income in 1965-66 has been provisionally estimated at Rs. 416 compared with Rs. 430 for the Indian Union as a whole. The main source of income is agriculture.

State income for 1965-66 in Rs. crores : 968. Sector-wise distribution : Agriculture and allied activities 486; mining, manufacturing and small enterprises 219; commerce, transport, communications 130; other services 133.

* The Government is building a new capital of the State at Gandhinagar, 23 kms. north of Ahmedabad City on the west bank of the Sabarmati river. The project cost is estimated at Rs. 45 crores.



The land utilisation in the State shows that 52.1 per cent of the area is the net cultivated area. The percentage of barren and uncultivated land is 23.5 for 1964-65.

The percentage of area under barren and unculturable land is very high. This is partly because of extensive barren lands in Kutch. The State is rich in permanent pastures and grazing lands.

The main food grains are bajri, jawar, rice and wheat. Rice is grown chiefly in the south Gujarat districts of Kaira, Panch Mahals, Baroda and Surat; cereals are grown in the north Gujarat and Saurashtra Districts. Wheat is grown more especially in north Gujarat and to some extent in Saurashtra. The district of Panch Mahals is also noted for maize.

Among non-foodgrain crops, cotton, tobacco and groundnut are important. More than one-fifth of the area under cotton in the Indian Union is in this State.

The State has limited forest resources. The area occupied is about 9 per cent of the total geographical area of the State. The forest areas are concentrated mainly in Dangs, Junagadh, Panch Mahals, Baroda, Broach, Surat and Banaskantha Districts and to some extent in Jamnagar and Kutch.

The major forest produce are teak, bamboos, yellow wood, red wood, black wood, sandalwood, Khar, Simal, Dhumda, Dudhia, etc. Minor forest products are grass, honey, wax, colouring wood. Dangs has rich teak forests. The Gir forests in Saurashtra contain a lions' sanctuary, the only one in India.

The State has a total livestock population of 143.37 lakhs and poultry 23.24 lakhs. There is a high proportion of she-buffaloes over three years. The State is noted for its high yield of milk per head of cattle. Certain breeds like Kankrej and Gir are wellknown. The high milk yield generally contributes to the high production of milk and dairy products.

Banking facilities are better than in many other States; there were 561 offices of commercial banks located at 228 centres at the end of 1966-67. The co-operative banking offices numbered 381 and they cover 265 places. The deposits and bank credit of the commercial banks amounted to Rs. 296 crores and Rs. 146 crores at the end of 1966.

The Gujarat State Cooperative Land Development Bank Ltd., established in 1951, functions in the State through its 147 branches and 4 Primary Banks. The bank has advanced loans worth Rs. 10.5 crores during 1965-66 and has a membership of 5.03 lakhs at the end of 1965-66. The paid-up share capital was Rs. 3.28 crores.

Gujarat is rich in minerals like salt, limestone, manganese, gypsum, china clay, calcite, bauxite, etc. Large deposits of bauxite of very good grade are located in Saurashtra and Kutch. The reserves of bauxites in the State are of the order of 17 million tonnes. The fluorite deposit located near Chhotadepur in Baroda district is one of the largest in Asia and has reserves of the order of 11.6 million tonnes. Limestone reserved in the State runs into several thousand million tonnes, the best quality limestone being located in Saurashtra and Kutch. The State also has deposits of lignite, china clay and other clays, glass sand and quartz, dolomite, agate, calcite etc.

Oil and natural gas have been found in Ankleshwar, Kalol and Cambay oil fields where drilling is in progress. A refinery has been set up at Koyali in Baroda District.

The major industries of the State are textile (including ginning and pressing of cotton), general and electrical

engineering, vegetable oils, chemicals (including salt), soda ash and cement. The concentration of industry is most striking in Ahmedabad, Baroda and Surat.

The distribution would roughly be as follows:—textiles and its ancillaries in Ahmedabad, silver thread in Surat, cement at Porbandar, Dwarka and Sikka, chemicals around Baroda.

There are six industrial estates in the State and more are to be started shortly. Government has also decided to carry out pilot plant tests of certain minerals for industrial use.

The available power supply falls short of demand. At the end of 1966-67 only 2,279 villages were electrified by the State Electricity Board out of 19,017 villages in the State.

Road transport is not satisfactory for the State as a whole—14.7 kms. for 100 square kilometres of area or 113 kilometres for lakh of population.

Saurashtra has a net-work of railways. The Baroda area is also well-served.

There are 46 ports in Gujarat (one major, eight medium, 32 minor). The bigger ports with annual (1966-67) cargo handled:—Kandla (26.61 lakh tonnes), Okha (6.48 lakh tonnes), Bedi (3.66 lakh tonnes), Bhavnagar (7.73 lakh tonnes), Verawal (2.77 lakh tonnes), Sikka (2.37 lakh tonnes), Porbandar (2.61 lakh tonnes).

About education nearly 13.34 per cent of the population attends school.

There are six universities in Gujarat—the Gujarat University in Ahmedabad, the Maharaja Sayajirao University in Baroda, the Sardar Vallabhbhai Vidyapeeth in Vallabh-Vidyanagar, South Gujarat University, Saurashtra University and Ayurved University.

Each Government dispensary or hospital in the State serves about 18,000 of the population and each bed about 2,400. On an average about 8,540 persons register every month for employment. Out of this about 847 are placed in employment.

The Third Plan total revised outlay was Rs. 236.50 crores and the expenditure during the Plan period was about Rs. 240.19 crores.

PANCHAYATI RAJ

The three-tier Panchayati Raj system of democratic decentralisation started functioning with effect from 1st April 1963.

It has been accepted as the pattern of local development administration. At each level—village, taluka and district, there is a link between the administrative organisation and the elected representatives. Apart from carrying out the Municipal functions, Panchayati Raj institutions, are closely and actively involved in the very process of economic development and social advance.

Villages with a population under 10,000 have Gram Panchayats and with 10,000 to 20,000 have Nagar Panchayats. At present there are 11,864 Gram Panchayats and 55 Nagar Panchayats. They cover a rural population of 1.53 crores. Under the Act, 182 Taluka Panchayats and 17 District Panchayats have been established covering the whole State except Dangs and Gandhinagar Districts.

The distinctive features of the Panchayati Raj in Gujarat are as under: A single enactment creating organically linked autonomous statutory bodies at the three tiers; Though autonomous within its own sphere the Gram Panchayat is subordinate to respective District Panchayats; The creation of a powerful executive body at the district

level; The conferment of a special status on the Education Committee at district level; Statutory provision for a State Council for Panchayats to advise Government on all policy matters concerning Panchayats; Genuine transfer of powers, functions and duties in the development sphere within the district, along with requisite funds and staff; Built-in scheme for further devolution of powers and dispersal of authority; Transfer of certain regulatory revenue functions to the Panchayati Raj Bodies; Statutory assignment of 100 per cent land revenue to Panchayati Raj Bodies; Creation of non-lapsable funds for assisting weaker areas, encouraging taxation efforts and financing developmental activities; and Constitution of a Service Selection Board at the State level and District Selection Committees at the District level for recruitment and advice in service matters.

Village Volunteer Force

For the total mobilisation of both human and material resources for the defence effort the scheme of the Village Volunteer Force has been implemented throughout the State with effect from Jan. 26, 1963.

As an integral part of this scheme, Defence Labour Banks are being organised in every village. The total number of Defence Labour Banks organised upto August 1965 is 4,845. The bank is based on the donation of free labour at the minimum rate of one day per month from every able-bodied adult or monetary contribution in lieu.

BASIC FACTS AND FIGURES

No. of towns 181; no. of villages 19,017.

Land utilisation—in '000 Hectares for 1964-65: Area under forest 1,617; Barren and uncultivable land 4,366; Permanent pastures and grazing groves 1,004; Net area sown 9,661.

Their membership, share capital and loan operations can be seen from the table below :—

	Membership as on 30-6-1966 (in '000)	Share capital as on 30-6-1966 (Rs. in lakhs)	Loans advanced during 1965-66 (Rs. in lakhs)	Loans recovered during 1965-66 (Rs. in lakhs)	Loans out- standing as at the end of 1965-66 (Rs. in lakhs)
Agricultural Societies	1,538	2,243	5,849	5,226	5,126
Non-Agricultural Societies	1,007	1,265	4,354	3,566	3,672
Land Mortgage Banks	527	338	1,071	312	3,231
Central Banks	28	1,137	17,712	16,343	7,666

Joint-Stock Companies as in March 1966:—(Provisional). The first figure shows the number of companies, the second authorised capital and third paid-up capital in '000 Rs. Agricultural and allied activities 7; 3,800; 2,588; Mining and quarrying 16; 17,655; 9,288; Processing and manufacture of food, textile, leather and products thereof 238; 993,213; 414,314; Processing and manufacture of metals, chemicals and products thereof 264; 986,256; 339,365; Processing and manufacture not elsewhere classified 111; 251,455; 108,638; Construction and utilities 38; 50,213; 19,493; Commerce (Trade and Finance) 295; 337,215; 99,420; Transport, communications and storage 19; 39,355; 11,902; Community and business services 32; 6,132; 2,427; Personnel and other services 17; 31,000; 16,949; Total 1,037; 2,716,294; 1,024,384.

Medical Statistics for 1966:—No. of hospitals and dispensaries 1,273; no. of beds 11,092; no. of indoor patients treated 3,34,000; no. of outdoor patients treated 63,74,000; no. of doctors 1,492; no. of nurses 1,645.

Area and outturn of Principal Food and Non-Food Crops:—Area in '000 Hectares and outturn in '000 tonnes for 1967-68 final forecast (first figure shows area, second production): Rice 514; 464; Wheat 553; 700; Jowar 1,355; 401; Bajri 1,689; 1,115; All cereals 4,547; 3,110; Gram 41; 22; All pulses 421; 153; Total food-grains 4,968; 3,263.

Cotton 1,650; 1,537 ('000 bales); Groundnut 2,009; 1,458.

Net area irrigated—by sources in 1964-65. (The figures in '00 Hectares): Government canals 1,209; Private canals 12; Wells 6,997; Tanks 326; Other sources 293; Gross area irrigated 8,837.

Gross area irrigated by Crops in 1964-65 (The figures in '00 Hectares): Rice 909; Wheat 2,210; Jowar 479; Bajri 300; All food crops 5,958; Cotton 1,941; Groundnut 89; Tobacco 135; Total non-food crops 3,176; Total gross area irrigated 9,134.

Agricultural implements in 1966: Wooden ploughs 14,40,965; Iron ploughs 1,44,543; Carts 7,32,982.

Sugarcane crushers worked by power 2,100; Sugarcane crushers worked by bullocks 2,677; Oil engines with pumps for irrigation 112,428; Electric pumps for irrigation 14,729; Government tractors 222; Ghanis five seers and over 1,837; Ghanis less than five seers 1,332.

Livestock position in 1966 (The figures in lakhs): Total livestock population 143.38; Total Poultry 23.24; Buffaloes—Females over 3 years 18.20; Cows over 3 years 17.80.

Co-operation in 1965-66 (Number of societies): Agricultural societies 11,046; Non-agricultural societies 6,828; Land mortgage banks (including State Level Banks) 5; Central Banks (including State Banks) 20; Total 17,899.

There are four Govt. Medical Colleges in the State in addition to a Dental College. An outlay of Rs. 14.63 crores has been provided in the Fourth Plan.*

Educational Statistics for 1967-68 (Provisional): Below we give the number of institutions under each category and the students respectively. Primary Schools 21,000; 3,213,000; Secondary Schools 1,847; 6,90,000; Higher Secondary Schools 230; 1,10,000; Others 6,000; 200,000.

Electric Power: Installed capacity (provisional) in '000 Kw. as on 31-3-1966: 651; No. of places electrified by Gujarat Electricity Board as on 31-3-1968: 2,628.

Working Class (1961): The State has 84.74 lakh workers. They could be classified as follows (figures in lakhs): Cultivators 45.19; agricultural labourers 12.51; mining, quarrying etc. 1.05; household industry 5.55; construction 0.90; trade and commerce 4.12; transport, storage and communications 1.59; in manufacturing other than household industry 5.36; other services 8.47.

* As originally conceived.

Industries (as at the end of 1967):—No. of factories 4,861; employment 4.16 lakhs.

Information about number of working factories and average number of workers employed therein daily respectively under each category is given below:—

Textile 881; 201,353; food except beverages 672; 30,888; tobacco 224; 7,581; non-metallic mineral products except petroleum and coal 448; 28,320; processes allied to agriculture 452; 39,150; machinery except electrical 593; 25,186; transport equipment 180; 17,745; others 1,411; 68,434.

Mineral Production as in 1966. The gross value of production (in '000 Rs.) of certain minerals is given below.

Bauxite 1,518; Calcite 42; Chinaclay 1,295; Dolomite 913; Fireclay 260; Limestone 11,041; Quartz and Silica 136; Salt 35,343.

Employment Exchanges

During the year 1967-68, about 13,000 persons were placed in employment as against the total registration of 155,000.

Transport (Nationalised Motor Transport system—Statistics for 1967-68): Number of routes operated 3,873; Route kilometres covered 172,000; Average number of passengers carried per day 9.83 lakhs; Average daily traffic earnings Rs. 6.03 lakhs.

Number of motor vehicles on road as on 31-3-1968: Motor Cycles 23,920; Motor cars 22,932; Taxi cabs 1,118; Auto Rickshaws 3,686; Stage carriages 3,710; Private carriers 3,020; Public Carriers 9,884; Others 9,633.

Roads: Length of roads as on 31-3-1968: 27,450 kilometres.

Railways: Approximate mileage (31-3-1967) in kilometres: Broad Gauge 900; Metro Gauge 3,412; Narrow Gauge 1,141.

Village Panchayats (1966-67):—

Taluka Panchayats 182; Gram Panchayats 11,967; Nagar Panchayats 54; District Panchayats 17.

Community Development Programme 1967-68:—

Stage I blocks 81.00; Stage II blocks 45.00; MDP and T.D. Blocks 50.00; Population covered by C.D. & T.D. Blocks 1.83 crores.

The physical achievements in respect of the main items are as follows:—

Fertilizers distributed ('000 Quintal) 2,602; composite demonstrations held (Nos.) 13,594; additional area brought under irrigation ('000 Hectares) 151; drinking water wells constructed (Nos.) 1,251; drinking water wells renovated (Nos.) 1,727; adult education centres started (Nos.) 703; adults made literate (Nos.) 19,104; kacha roads constructed (kms.) 1,204.

Small Savings:—During 1967-68 the target for small savings was fixed at Rs. 12 crores against which the net collections amounted to Rs. 4.74 crores.

Housing: The total allocation for housing in Gujarat in the Third Plan was Rs. 1,039 lakhs. The allocation for the first three years was Rs. 391.07 lakhs, but the amount actually drawn was only Rs. 246.11 lakhs.

Consumer Price Index number (base 1960 = 100):—
(For Ahmedabad).

	1964	1965	1966	1967
Food	124	135	150	189
Fuel, lighting ..	112	120	126	132
Clothing	119	120	120	125
Housing	102	104	106	109
Miscellaneous ..	119	126	138	151

Index nos. of wholesale prices (base 1962 = 100):—
as in 1967.

Rice (medium) 314.7; wheat (medium) 191.7; Jowar 211.0; Bajri 208.8; Turdal 247.6; Groundnut oil 222.6; Gur 291.6; Sugar 130.1.

Small-Industries Corporation: This corporation was incorporated on March 26, 1962 and started functioning. The corporation is expected to give aid, counsel, assist and to promote the interests of small industries in the State by providing technical and managerial assistance, and procuring raw materials, machinery, equipment, tools etc. required by the small industries. Upto the end of 1965-66, 39 applications worth Rs. 6.25 lakhs were sanctioned out of which 32 units were supplied machinery to the tune of Rs. 4.31 lakhs.

ELECTRIC POWER PROJECTS

The position as at the end of 31st March, 1968 in respect of the entire power system under the Board's control was as follows:—

Gross fixed assets of the Electricity Board: Rs. 10,667 lakhs. Amount spent on electricity: Rs. 20,79 lakhs. Working expenditure: Rs. 1,166.41 lakhs. Particulars of installed generating capacity, maximum demand etc., are given below:—

1. Installed Generating Capacity (M.W.): (a) Thermal 384.500; (b) Diesel 38.811; Total 424.311.
2. Firm Generating Capacity (M.W.): (a) Thermal 287.000; (b) Diesel 26.094; Total 313.094.
3. Maximum Demand (M.W.): 316.90 (coincident).
4. Units Generated and or Purchased (KWH \times 10): (a) By Thermal Power Station 1,668.1; (b) By Diesel Stations 22.0; (c) Bulk Purchase 143.1.
5. Units Sold (KWH \times 10): 1,403.72.
6. Auxiliary consumption (KWH \times 10) and Purchase respectively: 149.3 (8.15).
7. Transmission Losses (KWH \times 10) and Percentage respectively: 280.18 (15.30).
8. Connected load (MW): 751.
9. Consumers served (No.): (a) Agricultural 34,738; (b) Total 5,07,903.
10. Transmission lines — (11 KV and above) (Circuit KM): 22,991.
11. Distribution lines: 14,208.
12. Transformer Capacity (MVA): 2,259.
13. Towns and Villages electrified (No.): 2,628.

IRRIGATION PROJECTS

Over Rs. 1,700 lakhs have been allocated for irrigation schemes in Gujarat for the year 1968-69.

Below we give a table in which are shown irrigation projects under construction :—

Name of Project	Estimated cost (in lakhs of Rs.)	Area likely to be irrigated on completion (Acres)
1	2	3
1. Ukai (under revision) ..	6,120.02	3,91,650
		In addition it will assure irrigation to 5,62,250 acres of Kakrapar.
2. Kadana ..	1,790.76	40,905
		In addition it assures irrigation to 6,39,600 acres under the command of Mahi Right Bank Canal Project Stage I.
3. Narmada* ..	4,141.43	9,97,500
4. Kakrapar ..	1,857.00	5,62,250
5. Mahi Right Bank Canal Project Stage I	2,456.83	4,60,000
6. Dantiwada ..	1,087.94	1,10,000
7. Hathmati ..	544.58	92,900
		Including 47,800 acres of land under the existing canal system.
8. Meshwa ..	314.33	59,050
9. Saraswati (under revision).	131.53	16,600
10. Shetrunji (Palitana) ..	696.00	86,000
11. Bhadar ..	417.29	42,400
12. Shetrunji (Khodiar) ..	190.88	19,000
13. Machhu II ..	213.88	19,000
14. Sabarmati (Dharoi) ..	1,742.00	1,18,600†

* Final decision on the scope of the project is pending.

† In addition it will assure irrigation to 70,000 acres under the Fatewadi canal system.

Ukai Project

The project envisages the construction of a reservoir on river Tapi at Ukai in Surat district at an estimated cost of Rs. 6,120.02 lakhs (presently under revision) to irrigate 3,91,650 acres of land in Surat and Broach districts. In addition 5,62,250 acres, at present under Kakrapar canals, will get assured supply of water.

Besides, 27,800 acres under command of Ukai canal and 56,200 acres under Kakrapar system will receive perennial irrigation. It also provides for generation of installed power of 1,30,000 kW. at 60 per cent load factor.

The works on the project have now gathered full momentum.

Expenditure at the end of March 1968 was Rs. 28.58 crores. Budget provision for the year 1968-69 was Rs. 10.72 crores under irrigation sector and Rs. 1.50 crores under power sector.

Kadana Project (Mahi Stage-II)

The project envisages the construction of a reservoir on the Mahi river near Kadana village of Santrampur taluka in the Panch Mahals District at an estimated cost of Rs. 1,790.76 lakhs. The catchment area of the site is 9,840 sq. miles. A direct canal from the reservoir will irrigate 40,905 acres of land in the Panch Mahals district. The storage will also provide assured water to 6.39 lakh acres in the command of Mahi Stage I project.

It is also proposed to generate hydro-power from the irrigation releases. A hydro-power project estimated to cost Rs. 5.16 crores is submitted to C.W. & P.C.

Expenditure to the end of March 1968 was Rs. 1.50 crores. Budget provision for the year 1968-69 was Rs. 1.29 crores.

Narmada Project

The first stage sanctioned for Rs. 4,141.43 lakhs envisages construction of a dam across the river near the village Navagam in Rajpipla taluka of the Broach District with canal system to irrigate an area of 9,97,500 acres of the Broach and the Baroda districts. The Committee appointed by the Government of India in 1964 under the chairmanship of Dr. A. N. Khosala has recommended F.R.L. 500 for the Navagam Dam, irrigation of 45.81 lakh acres in Gujarat and 1 lakh acres in Rajasthan and installation of generating units of 1,000 M.W. and 240 M.W. in the river bed and canal power houses respectively. Pending the final decision on the scope of Narmada Project, only preliminary works are in progress.

Expenditure to the end of March 1968 was Rs. 4.45 crores. The budget provision for 1968-69 was Rs. 18.98 lakhs.

GUJARAT HOUSING BOARD

The Housing programme of the Gujarat Housing Board for the year 1967-68 provided the target and allocation of fund for each scheme as under :—

1. *Subsidised Industrial Housing Scheme* : A loan of Rs. 7.00 lakhs had been sanctioned to complete 1,500 tenements which were in progress and to commence work on 2,236 tenements in various cities and towns of Gujarat.

2. *Low Income Group Housing Scheme* : A loan of Rs. 26.00 had been sanctioned to complete 2,044 tenements in progress and to commence work on 2,644 tenements in various cities and towns of Gujarat.

3. *Middle Income Group Housing Scheme* : To complete 392 tenements in progress and to commence work on 321 tenements in various cities and towns of Gujarat, a loan of Rs. 25.00 lakhs had been sanctioned.

4. *Land Acquisition & Development Scheme* : No loan had been sanctioned for this year to acquire and develop lands in various cities and towns.

The table below shows the achievements made by the Gujarat Housing Board till the end of March, 1968. This covers the houses constructed by the erstwhile Bombay Housing Board in Gujarat region and by the ex-Saurashtra Housing Board in Saurashtra region :

(Rs. in lakhs)

Scheme	No. of tenements completed upto March, 1968	No. of tenements under construction	Expenditure upto end of March, 1968
S.I.H.S.	19,740	150	688.56
L.I.G.H.S.	1,798	904	184.91
M.I.G.H.S.	362	282	99.68
Land Acquisition & Dev. Scheme.	A G 242 10	Many sites under acquisition.	40.15
ESI Scheme on behalf of ESI Corporation	32 Dispensaries.	5 Dispensaries, 2 Hospitals, Diagnostic Centre etc.	190.10

Number of tenements distributed during 1965-66 : Subsidised industrial housing scheme 17,552 ; Low income group 676 ; Middle income group 120 ; Houses at Anjar for earthquake sufferers 344 ; Total 18,692.

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

AHMEDABAD DISTRICT*

Headquarters : Ahmedabad. (Provisional Capital of Gujarat).

Talukas or Mahals : Deskroi, Dhandhuka, Dholka, Dehgam, Viramgam, City Taluka Sanand.

The District as a whole is open and poorly wooded. The chief trees are mango, rayan, mahua and nim. Many of the trees and shrubs supply food, medicines and material for dyeing and tanning.

The rainfall varies but slightly between the central portions of the District and the outlying tracts. The annual rainfall averages about 30 inches.

The Chief food crops are wheat, jowar and bajra and the chief money crop, cotton. The best rice is grown in Daskroi and the next best in Sanand and Dholka.

Ahmedabad city which is the second biggest textile centre in India is the only large industrial area in the District. The number of textile mills and factories is about 150 including about 72 textile mills. Ahmedabad is also a centre of railway communications. Ahmedabad has also a number of archaeological landmarks and an international diversionary airport.

The population of Ahmedabad City according to the 1961 census is 11·5 lakhs.

AHMEDABAD MUNICIPAL CORPORATION

Mayor : Dr. Somabhai C. Desai.

Dy. Mayor : N. P. Shaikh.

ADMINISTRATIVE PERSONNEL

Municipal Commissioner : P. B. Mehta, I.A.S.

Deputy Municipal Commissioners : N. H. Thacker, M.Com., LL.M. and M. A. Panchal.

Municipal Secretary : N. M. Desai.

Budget 1967-68

Revenue Receipt : Rs. 9,66,06,734 ; *Expenditure* : Rs. 9,43,10,759 ; *Outlay on works* : Rs. 4,78,07,000.

GUJARAT UNIVERSITY

(Ahmedabad 9)

(Total Affiliated Colleges : 103)

Chancellor : Shriman Narayan.

Vice-Chancellor : U. J. Joshi, M.A.

Registrar : K. C. Parikh.

Budget 1967-68

Income : Rs. 77,40,550 (Recurring), Rs. 2,58,246 (Non-recurring).

Expenditure : Rs. 86,09,500 (Recurring), Rs. 2,92,000 (Non-recurring).

Total number of students on the rolls of the colleges and recognised institutions (1966-67) : 56,086.

Number of External students registered (1966-67) : 8,313.

AMRELI DISTRICT*

Headquarters : Amreli.

Talukas and Mahals : Amreli, Kodinar, Dhari, Khambha, Jafrabad, Rajula, Lilia, Lathi, Kunkavav, Vadia, Babra.

The District is level country broken only by Gir Hills in

the Dhari Taluka. The average yearly rainfall is between 23 to 25 inches.

The Okha Port in Amreli District is one of the best deep sea ports in India. In Okhamandal Taluka, Port Okha, Mithapur and Dwarka have become industrial centres.

BANASKANTHA DISTRICT*

Headquarters : Palanpur.

Talukas and Mahals : Palanpur, Deesa, Dhanera, Vadgam, Tharad, Wav, Deodar, Kanlerj, Danta, Radhanpur, Shanthalpur.

BARODA DISTRICT*

Headquarters : Baroda.

Talukas and Mahals :—Baroda, Savli, Waghodia, Padra, Karjan, Sinor, Dabhoi, Sankheda, Naswadi, Chhota-Udepur, Jabugam, Tilakwada.

Geological experts of the Oil and Natural Gas Commission of the Govt. of India are prospecting for oil in Baroda. Oil and Natural gas workshop has been located

at Baroda at a cost of Rs. 2 crores. Gujarat Refinery with a capacity of 3 million tons is being set up in this District. Second unit of a million tons capacity is expected to start production shortly. At present 3,300 tons of oil is sent to Bombay Refineries daily.

Ankleshwar gas will be made available to Baroda industries and domestic consumption soon.

* See article on "Population" for area and population figures.

The District as a whole has not less than 1,635 primary schools, 135 secondary schools, 800 libraries, 300 gymnasiums and welfare associations.

The annual rainfall averages about 30 inches. The chief food crops are wheat, jowar, bajra, pulses, kodra, bawta, maize. Rice is now grown extensively interspaced with cotton.

Baroda, the headquarters of the District is fully modernised. The District is also well advanced in industry. In recent years a number of factories, big and small have sprung up. It is also the Headquarters of Oil & Natural Gas Commission Establishment in Gujarat.

Among the large medical institutions the most important is the Shri Sayajirao State General Hospital in Baroda city. There is also the Shri Jamnaba Hospital run by the Government. A new Hospital at a cost of Rs. one

crore is under construction. Shri Padmavatibai Tuberculosis Hospital and Sanatorium is located some 8 miles from Baroda city.

MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA Baroda 2.

Budget for the year 1968-69 :

Estimated Income : Rs. 1,11,72,140 including Government of Gujarat grant of Rs. 53,93,312. *Estimated expenditure :* Rs. 1,43,84,915.

Chancellor : His Highness Shrimant Fatesinh Gaekwad, Maharaja of Baroda.

Vice-Chancellor : Dr. C. S. Patel.

Pro-Vice-Chancellor : Prof. P. J. Madan.

Registrar : B. K. Zutshi.

BHAVNAGAR DISTRICT*

Headquarters : Bhavnagar.

Talukas : Bhavnagar, Botad, Gadhada, Kundla, Mahuva, Palitana, Sihor, Talaja, Datha, Umralla, Vallabhipur, Gariadhar, Gogho.

The port of Bhavnagar is well-equipped, and it is one of the main trading centres of the area.

The main crops are bajra, jawar, oilseeds, rice, cotton and wheat.

BROACH DISTRICT*

Headquarters : Broach. *Sub-Division :* Rajpipla.

Talukas and Mahals : Broach, Vagra, Amod, Jambusar, Ankleshwar, Hansot, Nandod, Jhaghadia, Valia, Dediapada, Sagbara.

The language spoken is Gujarati.

BULSAR DISTRICT

Population: 1,042,561. *Headquarters:* Bulsar, Bulsar City. *Talukas :* Navsari ; Chikhli ; Bansda ; Bulsar ; Dharampur ; Pardi and Umbergaon.

Mahals : Gandevi Mahal.

Bulsar is a "BAGAYAT" district famous for its fruit gardens especially as "Mango" producing centre. Its

importance has increased due to the establishment of Atul Products at the foot of the Parnera Hills, near Bulsar. On the other side of the Town is situated 'Tithal' on seashore a place for Holiday Home. The new district can also boast of having one sugar factory at Gandevi.

DANGS DISTRICT*

Headquarters : Ahwa.

Taluka : Dangs.

The language spoken by the Dangis is called Dangi.

The District contains some of the richest forests in Gujarat State, which form the principal source of revenue. Dangs teak is considered as one of the best varieties of Indian teak.

JAMNAGAR DISTRICT*

Headquarters : Jamnagar.

Talukas : Jamnagar, Dhrol, Kalavad, Khambalia, Jamjodhpur, Bhanvad, Jodia, Kalyanpur, Lalpur, Okhamandal.

There are seven towns and 656 villages in the District.

People live mainly on agriculture. Including both cultivated and waste land the District has an area of 21,97,674

acres. The average rainfall is 20" to 22". Potato is cultivated on a large scale in the district.

The main small industries are the manufacture of agricultural implements, brass and copper vessels, the making of baskets, the manufacture of tiles, lime, oil crushing, handlooms, salt, the keeping of poultry.

Sikka, Bedi and Rosy are the three ports of the district. Sikka is known for its cement industry.

* See article on "Population" for area and population figures.

JUNAGADH DISTRICT*

Headquarters : Junagadh.

Talukas and Petas : Bhesan, Junagadh, Keshod, Kutiyana, Malia, Manavadar, Mangrol, Mendarda, Patan, Porbandar, Ranavav, Talala, Una, Vanthali, Visavadar.

Agricultural land under paddy, jawar, bajra, wheat, groundnut and cotton is 14,09,400 acres in extent.

Junagadh is well-known because of the lions in the Gir forests. This is the only place in Asia where lions are found.

Porbandar and Veraval are the two important ports in the district.

The main industries of the district consist of cement, ginning and pressing, oil, etc. New industries like soda-ash and rayon are coming up.

KAIRA DISTRICT*

Headquarters : Kaira (Revenue), Nadiad (Judicial).

Talukas and Mahals : Matar, Mehmedabad, Nadiad, Kapadvanj, Anand, Borsad, Thasra, Balasinor, Cambay, Petlad.

The language spoken is Gujarati.

Tobacco is grown in Kaira District while at Sevalia in the Thasra, the A.C.C. has a cement factory. The Government of India have opened a tobacco research institute at Anand.

There is an Infant Food & Cheese Plant at Anand run by the Kaira Dt. Co-op. Milk Producers' Union Ltd.

SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar, W. Rly. (Gujarat).

The Sardar Patel University is a teaching and affiliating University in a rural setting with the object of accelerating the process of regeneration of villages by the application of modern Arts, Sciences and Technology to rural requirements.

Constituent Colleges : 14.

Post-graduate Departments : 14.

Chancellor : Shriman Narayan, Governor of Gujarat.

Vice-Chancellor : I. J. Patel.

Registrar : K. A. Amin.

KUTCH DISTRICT*

Headquarters : Bhuj.

Talukas and Mahals : Bhuj, Mandvi, Mundra, Anjar, Rahpar, Bhachau, Nakhatrana, Lakhpat, Abdassa, Khavda and Khadir.

Kutch is a semi-arid region. Rainfall is very irregular and scanty. Sub-soil waters in 70 per cent of the area are saline.

Agriculture : There is a fair proportion of good cultivable land in Kutch, the principal crops being bajra, jawar, wheat, barley, cotton and pulses. The cultivation of groundnuts is also increasing day by day.

The whole Dist. is covered under the Community Development Programme.

Position of the road mileage at the end of the Third Five Year Plan period : Total mileage 1,178 ; National Highways 47 miles, State Highways 311 miles, Major District Roads 432 miles, other District Roads 306 miles and village approach roads 82 miles.

The District is rich in gypsum, clays and limestone, and has large deposits of lignite, bauxite and ochres.

Kutchis are an enterprising and seafaring people. Over six lakhs of Kutchis are distributed in principal cities of India and over 15,000 are abroad.

The main items of export are salt, cotton, wool, castor seeds, bones, hides, skins and fish. The main items of import are foodgrains, oil seeds, cloth, condiments, etc.

Education : There are 39 High Schools and 686 primary schools. There are also two Basic Training colleges for primary teachers and a school for the deaf and dumb. There are 3 colleges at Bhuj, Adipur and Mandvi.

Health : Free medical relief is available in the district. There are 24 hospitals, 57 dispensaries, 9 primary health centres, one T.B. sanatorium, 3 T.B. clinics, one mental hospital, one laboratory and two eye hospitals. There are also 21 private hospitals and dispensaries.

Transport : 447 villages and towns are served by Road Transport Corporation on 11 different routes covering a route mileage of 3,897 miles a day. The length of railway line passing through the district is 202.13 K. metres.

Kandla is a major port. Minor ports are Mandvi, Mundra, Jakhau, Lakhpat and Koteswar.

The new townships of Gandhidham and Adipur have been established near Kandla to resettle the displaced persons from West Pakistan. One Industrial Estate is also organised near Gandhidham.

MEHSANA DISTRICT*

Headquarters : Mehsana.

Talukas and Mahals : Patan, Chanasma, Sidhpur, Mehsana, Kheralu, Visnagar, Kalol, Vijapur, Kadi, Sami, Harij.

PANCH MAHALS DISTRICT*

Headquarters : Godhra.

Talukas and Mahals : Godhra, Dohad, Kalol, Halol, Jhalod, Deogad-Baria, Limkheda, Santrampur, Lunavada and Shehera Talukas, and Jambughoda Mahal.

The total area under agriculture is 14,42,666 acres yielding 421,000 tons of foodgrains including cereals, pulses, oilseeds and all edibles principally groundnuts. The acreage under different crops are : Paddy 31,842,

*See article on "Population" for area and population figures.

Bajri 5,740, Jawar 2,540, Groundnuts 43,530, Wheat 10,168, Maize 72,026, and Gram 3,970. The areas covered by cash crops are Digvijaya and Vijaya cotton 47,798, CO2 12,549, Tobacco 2,861 acres. There is a Hybrid maize breeding research centre in 25 acres at Vavdi-Bijarag on the outskirts of Godhra.

The average rainfall in the district is now only 25 inches. The lowest temperature is 40 degrees F. heat and highest 115 degrees F. heat.

The District has a forest area of 515,848 acres. The forests yield teak-wood, and hard-wood such as Mahuda, Sadad, Kher and Dhavda. The forests also produce Mahuda flowers, hay-fodder, timru leaves for bidi manufacture, and bamboos.

The irrigation projects in the District are Pata-Dungri Dam south of Dohad, Suki Dam north of Dohad in Jhalod Taluka, Titodi Dam south of Jhalod, and Karad Right Bank Dam in Devgad-Baria Taluka, and Tanachhida Irrigation project 15 miles from Dohad.

Agriculture, Mining and Forest produce are the main industries in the district which contains rich mineral deposits such as manganese ore, galena, copper, limestone. There are big manganese mines worked at Shivrajpur, Pani Mines and Bamankuwa.

COMMUNICATIONS

Bombay-Delhi Broad-gauge main line of Western Railway passes through Panchmahals district. Gujarat State Road Transport Corporation also runs various bus services and operates numerous routes in the district.

Pavagadh Hill station about 2,600 feet in height is situated in Halol taluka about 22 miles from Godhra. It is also a pilgrim centre.

The famous Bhadrakali temple of goddess is on the peak of the Hill and there are ancient monuments preserved by Archaeological Department of the Central Government.

RAJKOT DISTRICT*

Headquarters : Rajkot.

Talukas : Rajkot ; Jasdan ; Babra ; Morvi ; Wankaner ; Gondal ; Jetpur ; Dhoraji ; Kandorna ; Kotda-Sangani ; Lodhika ; Maliya Padadhari, Upleta.

Rajkot District has four sub-divisions, nine talukas, five mahals and one peta mahal.

The area of the land under cultivation is about 21,38,678 acres. The main industries of Rajkot District consist of textiles, hosiery, handlooms, the production of hydro-generated oils, potteries, salt-making, engineering, etc.

SAURASHTRA UNIVERSITY

Rajkot

Instructions in the following faculties are imparted in the University :

Arts, Science, Commerce, Education, Agriculture, Medical, Law, Rural Studies. Of these, the faculties of Education, Science, Commerce and Rural Studies of the University are at Bhavnagar.

It is an affiliating University.

Chancellor : Shriman Narayan, Governor of Gujarat State ; *Vice-Chancellor* : D. R. Mankad ; *Registrar* : J. M. Mehta.

No. of affiliated Colleges : 41. No. of Recognised Institutions ; 2 ; No. of Students in the University : 20,000.

Budget (1968-69).

Total Income : Rs. 10,61,500 (excluding Govt. Grant).

Total Expenditure : Rs. 21,90,400.

SABARKANTHA DISTRICT*

Headquarters : Himatnagar.

Talukas and Mahals : Himatnagar, Prantij, Modasa, Bayad, Idar, Khedbrahma, Bhiloda, Meghraj, Vijaynagar, Malpur.

The average yearly rainfall is between 25 and 30 inches.

The principal crops are bajri, maize, paddy, jawar, cotton, wheat, sesamum and groundnut. About 30 per cent of the people consist of Bhils and other backward classes. The main occupation of the people is agriculture. Except for a few ginning factories and oil mills, the District is very backward in industry.

SURAT DISTRICT*

Headquarters : Surat.

Talukas : Olpad ; Chorasi ; Mangrol ; Kamrel ; Mandvi ; Bardoli ; Songadh ; Vyara and Mahuva.

Mahals : Palsana ; Valod ; Uchhal and Nizar.

Besides being noteworthy historically, Surat is the biggest jari production as well as artsilk powerloom centre. Nearly half the population of the city depends on handicrafts. Jari work, laces, silk and jari brocades, embroidery, ivory and sandalwood carving, inlay work of varakh-nakashi and ivory bangles are the major handicrafts for which Surat is famous not only throughout India but even abroad. A co-operative industrial estate which

has developed at Udhna, three miles from Surat, is stated to be the biggest industrial estate of its type in the country. There is one sugar factory at Bardoli.

SOUTH GUJARAT UNIVERSITY

Navyug College Bhavan, Rander Road, Surat-1.

It is a teaching and affiliating University.

Chancellor : Shriman Narayan, Governor, Gujarat State. *Vice-Chancellor* : Prof. C. N. Vakil ; *Registrar* : P. M. Joshi.

No. of Affiliated Colleges : 26 ; No. of recognised Institutions : One.

* See article on "Population" for area and population figures.

SURENDRANAGAR DISTRICT*

Headquarters : Surendranagar.

Tahsils :—Wadhwan (Wadhwan); Chotila (Chotila); Mull (Mull); Dhrangadra (Dhrangadra); Halvad (Halvad); Dasda (Dasda); Limbdi (Limbdi); Lakhtar (Lakhtar); Sayla (Sayla).

There are about 12 towns with a population of over 5,000 and 672 villages.

About 70 per cent of the population lives in the rural areas. The main occupation of the people is agriculture, and the important crops are bajra, jawar, cotton, paddy, groundnut, wheat and gram.

The main industries of the district consist of textiles, salt, soda-ash, potteries, ginning and pressing factories.

HARYANA

AREA: 43,869 square kilometres. It has an annual budget of approximately Rs. 63 crores. It has only one division, seven small districts, 27 tehsils 62 towns and about 7,039 villages. It is essentially a rural State with a population of 75,90,543 of which 13,07,680 are in urban areas.

Districts : Ambala, Karnal, Rohtak, Gurgaon, Mohindergarh, Hissar & Jind. (For figures of area and population, see under the respective districts under composite Punjab in the main article on "Population").

Its Legislative Assembly consists of only 81 members. It is being represented by five members in the Rajya Sabha and by nine in the Lok Sabha.

Rainfall is comparatively low and erratic, soil is sandy and light in texture, and above all, there is paucity of sub-soil water and in a large number of tracts it is brackish.

There are no mineral resources except in Mohindergarh. The area is frequently visited either by heavy floods or by serious droughts.

ECONOMY

There are six cotton textile mills in Haryana located at Bhiwani, Hissar, Faridabad and Rohtak. Two sugar factories at Rohtak and Panipat were added to the existing one at Yamunagar. There are three paper mills and two cement factories.

There are a shoe factory, five large-scale cycle assembling and cycle components units and eight reolling mills, besides more than 2,000 units engaged in the manufacture of agricultural implements, machine tools, electric goods and bolts and nuts.

INDUSTRIES

Number of registered working factories (Jan. 1969): 1,224; No. of working factories: 1,168; No. of workers engaged in the registered factories: 64,564.

Production of important industries in the State (1966-67):—Cotton textiles worth Rs. 16,34,44,000; Cement: 5,19,076 tonnes; Paper: 42,139 tonnes; Sugar: 59,586 tonnes; Cycles: 3,77,093; Sewing Machines: 30,587; Agricultural implements and machine tools worth Rs. 481 lakhs; Steel reolling: 14,901 tonnes; Scientific instruments worth Rs. 1,35,71,000; Wood and machinery screws worth Rs. 6,17,000; Glass worth Rs. 18,019,000; Woollen textiles worth Rs. 13,50,000.

AGRICULTURE

Total area of Haryana according to village records pertaining to agricultural year 1967-68: 43,99,000 hectares as per detail given below:—

Area under forests: 91,000 hectares; area not available for cultivation: 4,89,000 hectares; Other non-cultivated land excluding fallow land: 1,37,000†; Fallow land: 2,59,000†.

Net area sown: 34,23,000 hectares; Area sown more than once: 11,76,000 hectares; Total cropped area: 45,99,000 hectares.

As much as 89 per cent of the people living in rural areas in the State are dependent on agriculture.

The production of foodgrains during 1967-68 was 25.67,000 tonnes; Sugar cane 5,10,000 tonnes, oil seeds 90,000 tonnes and cotton 2,89,000 bales.

The targets of agricultural production fixed for the Fourth Five-Year Plan are as follows:—

Foodgrains 30.90 lakh tonnes; Sugar cane: 7.50 lakh tonnes; Oil seeds: 1.05 lakh tonnes and cotton 3.75 lakh bales. Intensive cultivation programme of cotton, rice, maize, oil seeds, and bajra has been launched. The coverage of blocks during 1967-68 was cotton: 14 blocks; rice nine blocks, oil seeds 13 blocks, bajra two blocks and wheat 34 blocks.

At the close of the year 1967 the total number of agricultural credit societies in the State was 6,685 with a membership of 5.33 lakhs and working capital of various categories of Co-operative Societies was Rs. 56.71 crores.

These societies advanced short-term and medium-term loans to the extent of Rs. 8 crores during 1967-68 and lending operations are expected to increase to Rs. 15 crores by the end of the 4th Five Year Plan. In Haryana there were 2,016 regular fertilizer depots in the year 1967-68 supplying fertilizers.

ANIMAL HUSBANDRY

Livestock (census 1961): number of animals in the State: 49,34,000; cattle other than bullocks: 22,47,900; bullocks: 16,53,900; horses and ponies: 17,400; donkeys: 80,100; mules 6,500; sheep: 3,344,000; goats: 3,62,300 camels: 1,22,500; pigs: 90,600.

The State has 126 veterinary hospitals and 98 veterinary dispensaries. 297 first aid centres have also been set up.

The State has a big and modern livestock farm at Hissar at which systematic and scientific breeding of cattle, buffaloes, sheep, goats, donkeys, pigs etc. is undertaken.

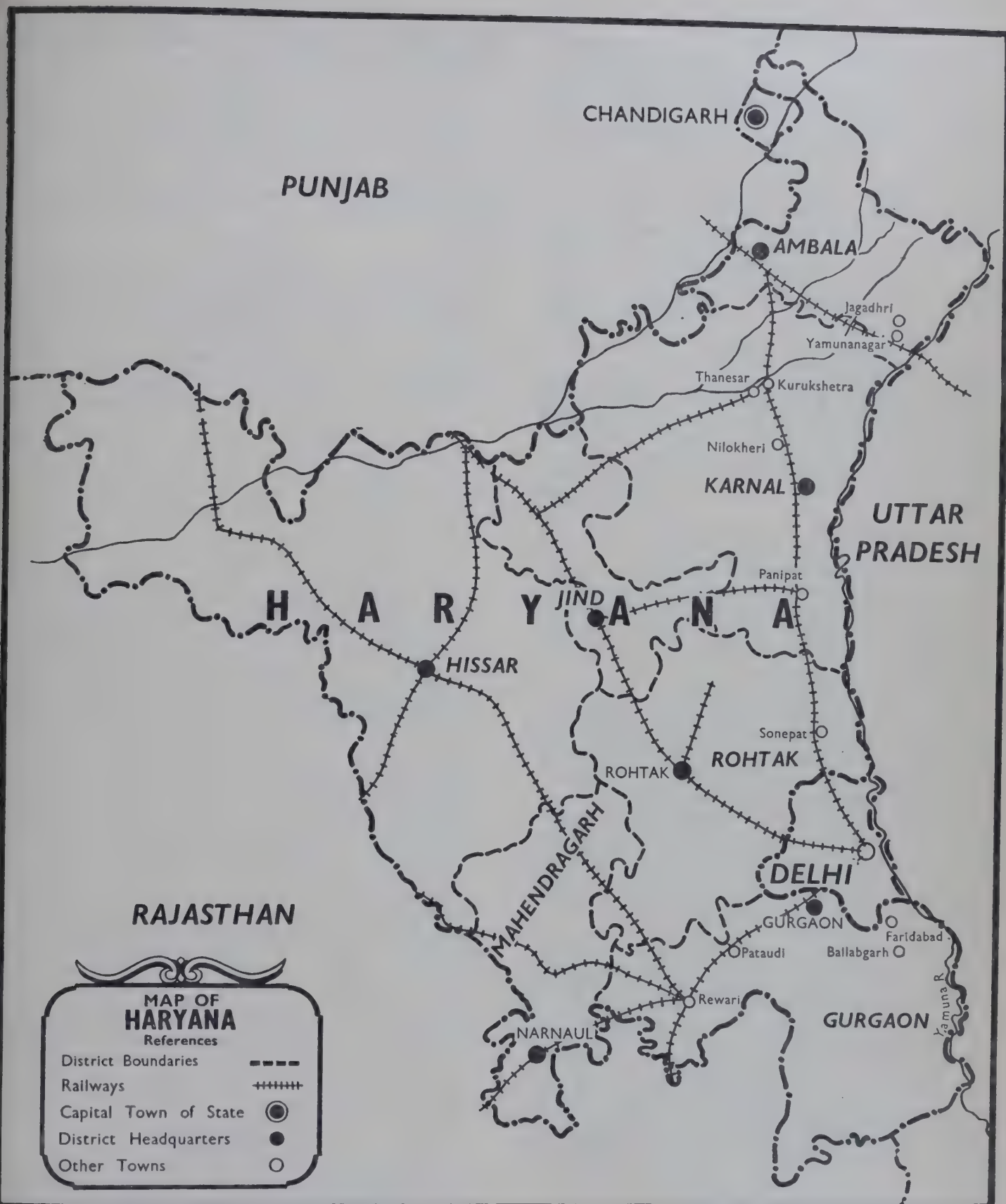
The State is famous for two breeds of cattle and buffaloes namely Haryana and Murrah.

LAND REFORMS

The 102.22 lakh acres of land to be consolidated in the State have been consolidated by the end of 1967-68.

The Haryana Government has passed a legislation abolishing land revenue upto 5 acres in the State on Aug. 23, 1967. This will cause an annual loss of Rs. 14 lakhs to the exchequer.

* See article on "Population" for area and population figures. † Hectares.



IRRIGATION

According to the village papers, the total area of Haryana State is 43,99,000 hectares of which net area sown was 34,23,000 hectares in the year 1967-68. At that time only 12,93,000 hectares were under irrigation of which 9,91,000 acres were irrigated by government canals, 2,28,000 by wells and 74,000 by other sources including tanks.

Haryana is one of the three participating states in the two multi-purpose river valley projects known as the Bhakra and the Beas River projects.

In addition to these projects, the Haryana Government is negotiating for an equitable apportionment of available water in the Ravi and Beas rivers. Haryana will also have a share in the schemes of Kishau Dam on the river Yamuna and Thein Dam on the river Ravi as and when the projects are executed.

While Bhakra project is complete, Beas project is at an advanced stage of completion.

The state has also prepared its own irrigation schemes known as Gurgaon Canal Project, Western Yamuna Canal feeder, Western Yamuna Canal remodelling, Rewari Lift Irrigation scheme, Dadri Lift Irrigation scheme, Nehar Salwas Lift Irrigation scheme, Installation of tubewells along Ghaggar river and Western Yamuna Canal tract and Link works from Sutlej basin to Western Yamuna Canal basin.

The proposed outlay for the Fourth Five-year Plan on minor irrigation schemes is Rs. 75 lakhs. It was proposed to spend Rs. 13 lakhs during 1967-68.

A provision of Rs. 500 lakhs for flood control drainage and anti-water logging schemes and Rs. 71 lakhs for soil conservation schemes has been made in the Fourth Five-year Plan. It was proposed to spend Rs. 95 lakhs in the year 1967-68.

ELECTRIC POWER

Considerable progress was made in the completion of the Right Bank Power House of Bhakra Nangal Power System during 1966-67. This power house is to have five Units. Five units of 90 M.W. each of the Left Bank Power Project of Bhakra were commissioned long time ago. Of the five units of 120 M.W. each on the Right Bank Power House which were to be commissioned last year four have since been commissioned, the total installed capacity of Bhakra system ending 1967-68 being 930 M.W. The remaining fifth unit was likely to be commissioned during 1968-69. The work on the Beas Project is progressing according to schedule. Power from this project is likely to become available after the Fourth Plan.

In addition to the above schemes, work was also in progress on the following generating schemes during 1967-68 : (i) Bassi Power House (Uhl Project Stage 2); (ii) U.B.D.C. and 15 KW thermal station, Faridabad.

For rural electrification, 7,399 tubewell connections were given during 1967-68.

The number of villages electrified increased from 1,249 to 1,322 in the year 1967-68. 29,275 general and 915 industrial connections were given during the same period, raising the total by the end of December, 1967 to 231,082 general and 10,274 industrial connections, respectively. For the current financial year, targets of 15,000 tubewell connections, 1,600 industrial connections and 40,000 general and commercial connections have been fixed.

TRANSPORT

There are about 5,638 kilo metres of metalled roads in Haryana. Government has taken over 50 per cent of all pacca routes leaving 50 per cent to private operators.

The state transport known as the Haryana Roadways has a fleet of 496 vehicles. These vehicles operate on 220 routes, cover a mileage of 98,602 miles daily and carry about one lakh passengers per day.

LABOUR

Number of registered factories in the State: 1,224; number of workers in these factories: 64,564.

Employees Provident Fund scheme has been enforced in the State. Employees State Insurance scheme, which was enforced in 1963, covers nearly 50 per cent of the workers.

EDUCATION

Number of students (boys and girls) receiving education in government and private schools in 1967-68 in Haryana was 11,50,348. Of these 8,59,278 were boys and 2,91,070 girls. Total number of institutions in the State was 5,858.

A provision of Rs. 1,303 lakhs has been made for the development of general education during the Fourth Plan period. Of this Rs. 220 lakhs were proposed to be spent during the year 1968-69.

To increase enrolment at all stages and to cope with additional enrolment, 120 primary schools were upgraded to middle standard and 108 middle schools to high standard. About 2,000 additional posts of teachers were created at the school stage and 71 posts of lecturers for government colleges.

HEALTH

Hospitals and dispensaries : Seven district hospitals, 52 lower level hospitals, 89 primary health centres, 124 dispensaries of sub-centres under each primary health centre are functioning in both rural and urban areas of the State. Seven hospitals at Kaithal, Panipat, Rewari, Sonapat and Hissar were upgraded in 1967-68. The bed strength at Jind and Narwana was raised to 50 and 29 respectively and that of Ambala and Karnal to 200 each. Twenty Allopathic dispensaries have been converted into Ayurvedic dispensaries due to shortage of qualified doctors.

There are seven family planning Bureaus, 10 urban family planning units, 81 rural family planning units with 316 sub-centres in the State. Against a target of 74,336 IUCD insertions and 37,168 sterilisation operations for the year 1967-68, 57,173 IUCD insertions and 1,656 operations were performed.

Malaria has been fully controlled in the State under the National Malaria Control programme. For the control of tuberculosis stress is being made on preventive immunization against T.B. and early diagnosis and treatment. With a view to eradicating small-pox, primary vaccination has been made compulsory in the State. At present there are 26 Family Planning clinics in rural areas and eight in urban areas. It is proposed to have 3,33,334 loop insertions and one lakh vasectomy operations during the Fourth Plan period.

There is a Medical College at Rohtak with an intake capacity of 50 students.

CO-OPERATION

The total membership of all types of societies on November 1, 1966 stood at 8.25 lakhs. Considering that one member represents a family of five members, 80 per cent of the total population is within the co-operative fold. The total working capital of these societies stood at Rs. 36 crores on November 1, 1966. Of this about one-third represented their own funds.

PANCHAYATS

There are 7,039 villages in the State. These are covered by 4,595 Panchayats at village level, 82 Panchayat Samitis at Block level and six Zila Parishads at district level. The Zila Parishad, Jind is yet to be constituted.

The separation of the Judiciary from the executive was formally inaugurated on October 2, 1964.

ANNUAL PLAN

The annual Plan outlay for Haryana for 1969-70 has been fixed at Rs. 27.49 crores.

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

KURUKSHETRA UNIVERSITY

Kurukshetra.

It is a teaching-cum-residential University for the encouragement of higher education and research especially in Sanskrit, Prakrits and modern Indian languages as also in Indian Philosophy and ancient Indian History and other aspects of Indology.

Chancellor : Governor, Haryana State ; Vice-Chancellor : D. C. Verma ; Registrar : Dr. S. S. Gupta.

Number of Constituent Colleges : Two ; Number of Recognised Colleges : Two.

Budget Estimates for 1967-68

Total Income : Rs. 70,52,920 ; Total Expenditure : Rs. 84,89,790.

HIMACHAL PRADESH*

CAPITAL : Simla. Area : 56,019 sq. Km. ; Population : 2.81 million (1961 census) ; Strength of Vidhan Sabha 63.

The Territory of Himachal Pradesh is divided into ten districts, viz. : Kinnaur, Simla, Sirmur, Bilaspur, Kangra, Lahaul-Spiti, Mandi, Kulu, Mahasu and Chamba.

ECONOMY

The main agricultural wealth of the Territory consists of fruits such as apple, apricot, peach and vegetables like seed potato, ginger, tomato, peas etc.

The climatic conditions of the Pradesh are suitable for the growing of a large variety of fruits including citrus, and dry fruits. Apples and pears are grown in the cooler regions. The superior varieties of apples which were restricted to Kotgarh and Kotkhai are now being grown extensively in the other parts of the Pradesh ranging between five thousand to eight thousand feet above sea level. With the new orchards rapidly coming up, the production of fruit increased considerably during the 3rd Five Year Plan.

Salt is another important item ; while forests yield timber, fire-wood and charcoal. Handicrafts which include Pashmina shawls, wool of fine quality, resin, herbs and skins are another source of income.

Himachal Pradesh forests supply the largest quantities of coniferous timber in Northern India. They are the main source of revenue in the Territory, the estimated revenue during 1968-69 being Rs. 5.50 crores. The entire Territory is divided into eight forest circles which are further subdivided into 23 territorial divisions. Besides, a Forest Utilization Division has been created to develop the resources of the Territory. Bilaspur Circle has been created under the Soil Conservation Scheme.

Seed potato is the chief cash crop in which the Territory has established itself as an important supplier to the plains of India. In 1967-68 the estimated production of seed potato was 17,69,000 maunds. The total acreage under

potatoes, stood at 31,000. The Pradesh sold about ten lakh maunds of seed potato to other parts of India.

One of the oldest foundries of the country is located at Nahan besides a resin and turpentine factory.

Under the Rs. 236.92 crore revised draft Fourth Plan as submitted to Planning Commission for approval, roads and transport have been given top priority with Rs. 60 crores ; power projects come next with Rs. 48 crores 53.78 lakhs. A sum of Rs. 22 crores 37.55 lakhs has been earmarked for agriculture and Rs. 21.25 crores for forests. Industries, Education, Medical and Public Health, Animal Husbandry, Panchayats, Cooperation and Community Development have been allotted Rs. 49 crores 33.40 lakhs.

Power—The Department of Multipurpose Projects & Power started functioning in April, 1964 to investigate the vast hydroelectric potential of H.P. Besides this, the Department is also required to deal with problems connected with soil conservation and flood control.

Work on Giri Hydro Electric Project, the first in the series of power projects to be taken up on Himachal waters by the Pradesh Government has already been started with the inauguration of the first stage of the project by the Prime Minister of India, on June 30, 1967.

Giri Hydro Electric Project has been designed in two stages in all generating 2.01 lakh kW. of electric energy besides providing irrigation facilities to 13,000 acres of land in the fertile Paonta valley in Sirmur district.

All five rivers—the Chenab, the Ravi, the Beas, the Sutlej and the Yamuna—flow through the Territory. It is estimated that the Government can have an annual income of Rs. 200 crores once Himachal's vast forest, hydel and mineral resources are fully exploited.

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

* See article on "Population" for Population and area of districts.

JAMMU AND KASHMIR STATE

CAPITAL: Srinagar. Area: 2,22,800 sq. kms.; Population: 35.61 lakhs (1961 census).

The area of 2,22,800 sq. kms. includes territories illegally occupied by China and Pakistan. The population, on this side of the cease-fire line according to 1961 census is 35,60,976; male 18,96,633; female 16,54,343.

The State has a Legislative Assembly and Legislative Council.

The State is divided into 10 districts, viz. Srinagar, Anantnag, Baramulla, Ladakh, Jammu, Udhampur, Kathua, Doda, Poonch and Rajouri.

The State is multi-lingual in character. Different dialects in different areas are spoken. Commonly spoken are, Kashmiri, Dogri, Balti, Dardi (Pali), Punjabi, and Bodhi. Urdu is the official language of the State. English is used as a medium of official correspondence and medium of instruction at University level.

AGRICULTURE

Agriculture is the main occupation of the people. More than 80 per cent of the population depends on it. Paddy, wheat and maize are the main crops grown in the State except in Ladakh where gram is grown. Besides, Jawar and Bajra are also grown in some parts of the Jammu region.

The total area in the State under crops is estimated at 21,22,000 acres including 4.37 lakh acres sown more than once and the total irrigated area during the Third Plan period covered more than 7.73 lakh acres. Agricultural earnings contribute 30 per cent of the State income. Production of rice has increased from 1.63 lakh tonnes in 1951-52 to 2.72 lakh tonnes in 1966-67 and that of wheat from 0.45 lakh tonnes in 1951-52 to 1.22 lakh tonnes in 1965-66. The yield per hectare of rice has risen from 8.69 quintals in 1951-52 to 12.17 quintals in 1966-67 and of maize from 4.80 quintals in 1951-52 to 9.23 quintals in 1966-67. In respect of wheat the yield per hectare has risen from 3.88 quintals in 1951-52 to 6.97 quintals in 1966-67.

IRRIGATION

212 tube wells are proposed to be sunk in R. S. Pora, Samba, Hiranagar and Kathua belt during the Fourth Plan. 24 such wells have already been completed.

INDUSTRIAL DEVELOPMENT

There are 18 Industrial Estates functioning in the State. Six hundred and seventy-two units have been registered till March 31, 1968 by the Industries Department. The Units function with a capital investment of Rs. 229.27 lakhs and provide employment to 4,391 persons. Besides, 186 factories have been registered under the Factories Act.

To improve the working of the various industrial units and for the establishment of new units the Government have sanctioned loans under the State Aid to Industries Act. The disbursement made from 1964 onwards (Rs. lakhs) is given below:—

1964: 3.37; 1965: 7.98; 1966: 4.09; 1967: 1.58.

The State Financial Corporation also advances loans to the small-scale industrial units for purchase of machinery, erection of buildings and creation of other fixed assets. The Corporation disbursed Rs. 8.9 lakhs to about 253 units last year. The Government proposes to issue loans upto Rs. 1.70 crores during the current year of which

25 per cent of the loan advanced to the units will be treated as subsidy.

During the 3rd Five Year Plan a Wool Spinning Mill with a capacity of 1,200 spindles, has been completed and commissioned. Another 1,200 spindles imported from Japan were under installation and were expected to go into production by the end of 1968-69. The Brick and Tile Factory was established during the 3rd Plan. The factory has a capacity of producing 15 lakh bricks and one lakh tiles. Modernization of the Government Woollen Mills, estimated to involve an outlay of Rs. 153 lakhs, is in progress. Woollen Spinning machinery imported from Belgium and Worsted Spinning machinery imported from UK is being installed these days. Modernization of Silk Weaving Factory and Match Factory will be taken up during the 4th Plan.

Facilities for production of indigenous silkworm seed are being given and the programme is expected to be completed by the next year. The import of seed is expected to be stopped from the next year. This would save foreign exchange to the tune of Rs. 15 to 20 lakhs.

POWER DEVELOPMENT

Total generating capacity at present is 37.838 MWS as against only 4 MWS in 1947. The Chanani Hydel Project with a generating capacity of 24 MWS and involving an expenditure of over Rs. 7 crores is progressing satisfactorily. The Kalakote Thermal Project with an installed capacity of 22.5 MWS has been completed recently at an estimated cost of Rs. 4.40 crores. The waters of Sind Nallah in the Kashmir Province are also being tapped further to set up two hydel projects of 44 MWS at a cost of nearly Rs. 15 crores. As many as 548 villages were electrified during the 3rd Plan as against 118 villages electrified during the 2nd Plan period.

TOURISM

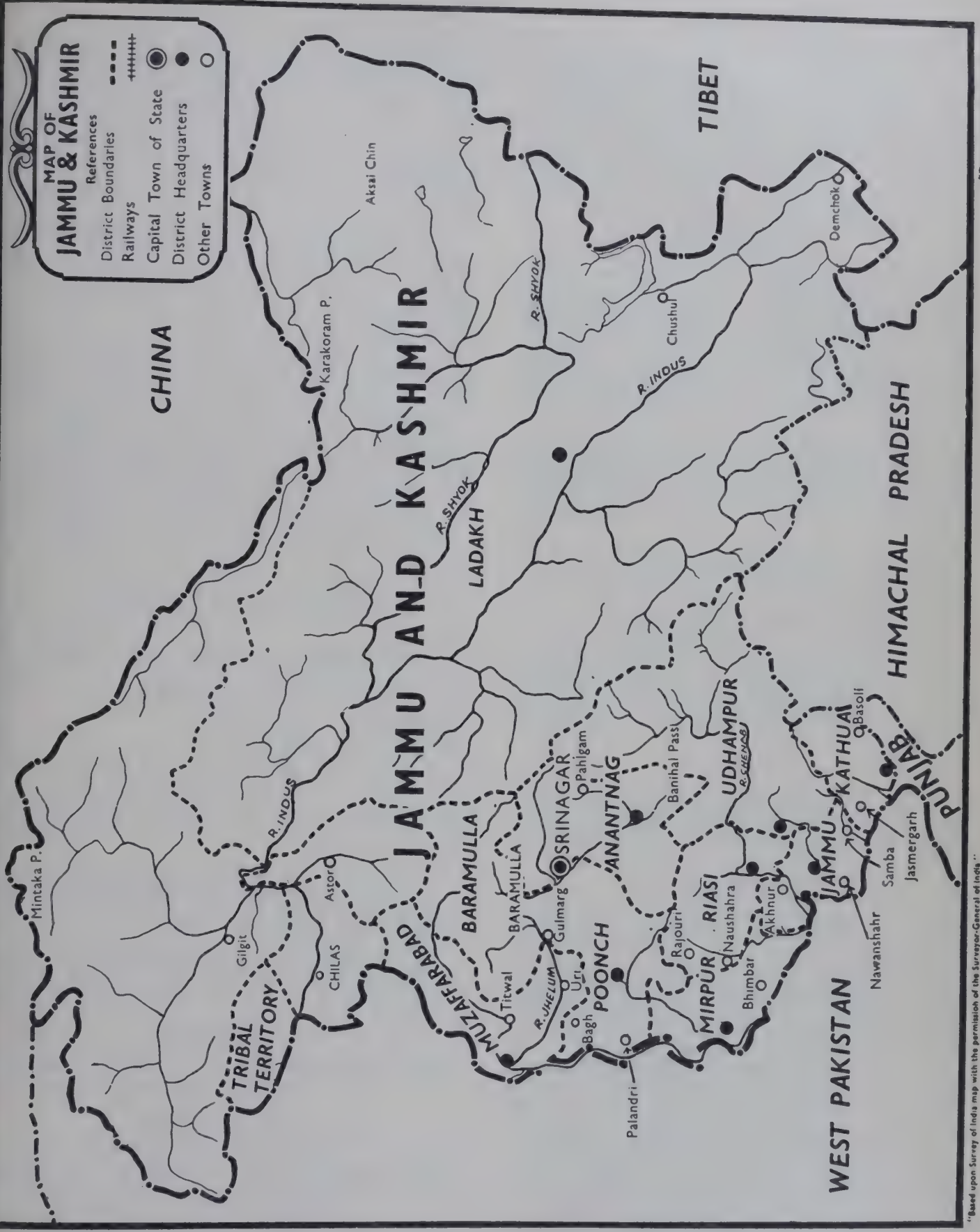
Places of tourist attraction are being developed to attract more and more tourists to the State. The number of tourists who visited the Kashmir Valley upto the end of 15th October, 1968 was 1,26,059, including 9,390 foreign tourists, as against 14,568 visitors in 1947. The number of tourist huts has increased to 130 today from 23 in 1947. There are 138 hotels, 413 houseboats, 20 travel agencies registered under the Tourist Establishment Act.

EDUCATION

Education is free from primary to post-graduate standard. Expenditure on education has increased from Rs. 35 lakhs in 1947-48 to over Rs. 5 crores. Percentage of literacy has increased from 6 in 1947-48 to 11. The number of primary schools has risen from 1,190 in 1948 to 5,167 in 1967-68. There were 54 high schools in 1947-48 and the number rose to 427 high/higher secondary schools in 1967-68 with a total enrolment of about 42,000 in the age-group of 14-17. At present there are 17 colleges as against only 4 in 1947-48. The Jammu and Kashmir University now has 21 post-graduate departments.

ROADS

During the 3rd Plan the road length was 1,670 miles. At the end of the 4th Plan the road length is expected to rise to 2,306. Major bridging done so far has been 7,200 RFT. Expenditure incurred on the development of roads so far has been about Rs. 695 lakhs.



PUBLIC HEALTH

Per capita expenditure on public health has risen to Rs. 9.12 from 47 paise in 1947. The number of doctors has gone up from 123 in 1947 to 824 in 1966-67. There is now one doctor for about 4,000 persons as against one doctor for 32,764 persons in 1947. Against a total provision of Rs. 18.94 lakhs in 1947 the estimated expenditure during 1967-68 under this head was Rs. 3.75 crores and in 1968-69 the envisaged expenditure was about Rs. 4 crores. There are 20 hospitals, 57 primary health centres, 18 primary health units, 178 allopathic dispensaries, 35 ayurvedic and unani dispensaries.

CO-OPERATIVES

Over 46 per cent of the rural population are covered by the Agricultural Credit Co-operative Societies. These co-operatives cover as many as 6,559 villages and 5,92,400 rural families. Besides, the agricultural credit and consumer co-operatives, various other co-operatives such as Fishermen Co-operative Society, Transport Co-operative, Milk Co-operative Society, Industrial Co-operatives etc. have sprung up in recent years to help the co-operative endeavour.

Over 1,000 agricultural credit co-operatives cover the entire plan areas at present. Rs. 4.50 crores are being advanced at present as short-term credit and fertilizer loans. This works to an average of Rs. 155 per member, of which the cash component is Rs. 75 and fertilizer loan Rs. 80.

There were 322 service co-operatives at the end of 3rd Five Year Plan covering 50 per cent of the total agricultural population of the State.

Fifty-six primary Marketing Societies and one Apex supply and Marketing Federation function at present in the State. Besides a net work of 52 Primary Consumer stores in the cities of Jammu and Srinagar, 5 whole-sale stores have been organised. Also 2 University Consumer Co-operative Stores are functioning at present. There are two Departmental Stores—one each in Srinagar and Jammu.

HOUSING

In the 3rd Five Year Plan period 980 houses were constructed for the low-income-group employees. Under the Middle-Income-Group Housing Scheme 25 houses were constructed during the 2nd Five Year Plan. In the 3rd Plan period 73 houses were constructed.

CONSTITUTION

A Constitution was finally approved and adopted unanimously on November 17, 1956. It came into effect on January 26, 1957.

The Constitution declares the State of Jammu and Kashmir to be "an integral part of the Union of India." This is irrevocable. Section 147 of the Constitution lays down that no amendment seeking a change in this can be moved in either House of the legislature.

With the adoption of the Constitution, the State has come much closer to the rest of the country. Having entered into financial arrangements with the Union Government in 1957, the State is on par with other States in respect of financial matters including proportionate allocation of funds from the Centre. The development schemes and projects under the Five Year Plans are being approved by the Planning Commission and expenditure on them is sanctioned on the recommendation of the Commission. Every major project is examined by various central agencies like the Central Water and Power Commission and Working groups of Central Ministries and the

Planning Commission to ascertain their technical and economic feasibility.

A State cadre of IAS and IPS officers has been created. This has brought about the integration of services ensuring the sharing and pooling of experience and talent. The State's participation in the Northern Zonal Council has widened the area of co-operation with other States leading to greater exchange of experience, technical know-how and pooling of administrative and other resources in various fields of development. The Accounts and Audit department of the State is now under the Auditor-General of India.

The recommendations of the State Legislature to amend the State's Constitution to provide for the extension of jurisdiction of Election Commission and Supreme Court over the State have been incorporated in the Indian Constitution through a Presidential Order issued on January 26, 1960.

An Act passed by the Legislative Assembly of the State authorises the Government to permit those non-State subjects to purchase land and other immovable property in Jammu and Kashmir who intend to set up industries in the State. The Government of Jammu and Kashmir have also entered into agreement with some Indian firms to establish industrial enterprises in the State. There is no ban now on the investment of outside capital in Jammu and Kashmir. In addition to the Constitutional and economic integration, the Government of Jammu and Kashmir is also endeavouring to foster cultural and literary synthesis between Kashmir and the rest of the country.

ADMINISTRATIVE PERSONNEL

(See under *States Administrative Personnel*)

THE UNIVERSITY OF JAMMU AND KASHMIR

Chancellor : Bhagwan Sahay, Governor.

Pro-Chancellor : G. M. Sadiq, Chief Minister.

Vice-Chancellor : Dr. J. N. Bhan.

Registrar : Prof. Abdul Aziz.

Number of affiliated colleges and oriental institutions : 37.

Number of students who appeared for the previous examinations in 1966-67 : Men 19,606 ; Women 4,362.

Budget for 1966-67 :—

Actual Income : Rs. 56,69,435 ; Actual Expenditure : Rs. 57,58,057 ; State Govt. grant : Rs. 25,00,000 ; Central Govt. grant and U.G.C. grant : Rs. 19,97,605 ; University receipts : Rs. 11,71,830.

The medium of instruction is English except in classical and modern Indian language classes, where the medium of instruction is the language concerned or an allied language.

ASSOCIATIONS

JAMMU & KASHMIR PRADESH YOUTH CONGRESS

Lall Chowk, Srinagar.

BEOPAR MANDAL

Sri Runbir Gunj, Srinagar 2.

KASHMIR CHAMBER OF COMMERCE & INDUSTRY

Residency Road, Srinagar.

President : D. S. Sawhney ; *Vice-President* : R. K. Sawhney.

Secretary-General : P. N. Puri ; *Jt. Secretary-General* : G. Rusull ; *Treasurer* : D. S. Oberoi.

Trade Offices

Trade Agent : S. A. Wahid.

Address : Manekji Wadia Building, 129, Mahatma Gandhi Road, Bombay 1.

Trade Agent : Kashmir House, Court Road, Amritsar, D. N. Kachroo.

Trade Agent, Pathankot : N. R. Sharma.

Trade Commissioner : 5, Prithviraj Road, New Delhi, R. C. Raina.

KERALA

CAPITAL : Trivandrum. Area : 38,855 Sq. Km. Coastal line : 580 Km. Total population 16,903,715 (1961 census). Density of population (1961) : 435 per Sq. Km. Sex ratio : 1,022 females per 1,000 males. Literacy per 1,000 : 468.

Figures for Sept. 30, 1968 : Number of districts 10 ; taluks 55 ; villages 1,635 ; municipal towns 25 ; corporations 3 ; panchayats 917. One more district the Malanad District is proposed to be formed by bringing together certain portions of Ernakulam and Kottayam districts. At the time of writing this the report of the Committee on Malanad had not been submitted to the Government.

Names of Districts with names of District Headquarters within brackets : Trivandrum (Trivandrum) ; Quilon (Quilon) ; Kottayam (Kottayam) ; Alleppey (Alleppey) ; Trichur (Trichur) ; Cannanore (Cannanore) ; Kozhikode (Kozhikode) ; Palghat (Palghat) ; Ernakulam (Ernakulam) ; Malappuram (Perinthalmanna).

For population of districts according to the 1961 census, see "Population." As a result of the formation of Malappuram District on 16-6-1969 the area of Kozhikode District has been reduced to 1,433.1 square miles.

Geography : The climate of the whole region is generally temperate and the rainfall heavy. Languages spoken in the State are Malayalam, Tamil and Kannada.

INDUSTRIES

Important industries of the State : Coir, textiles, tea, rubber, manufacture of bricks and tiles, fertiliser, chemicals, electrical accessories, cashew nut processing, printing, saw milling including plywoods and manufacture of splints and veneers for matches, rice milling, handloom, handicrafts and extraction of oils.

Main large-scale industries of State : Rubber, plywood, fertilisers and chemicals, rayons, glass, paper, aluminium, sugar, cement, textiles, titanium dioxide, soaps, shark liver oil, ceramics, rare earths and engineering cables, penstock, wire ropes, heavy transformers, spinning mills, D.D.T., machine tools & petroleum products.

Chief products of the large-scale industries of the State : Chemicals, ammonium sulphate, ammonium chloride, ammonium phosphate, superphosphate, sulphuric acid, ammonia, caustic soda, chlorine, calcium carbide, copper sulphate, titanium dioxide, rare earth salts, cycle rims, crockery and sanitary wares, electric porcelain, fire bricks, china clay, rayon grade pulp, sugar, etc.

Miscellaneous : Aluminium ingots, glassware, cement, rayon, transparent paper, vegetable oils and soaps, vanaspati, alcohol, pharmaceuticals, galenicals, plywood, ceramicware, rubber goods, paper, cotton textiles and engineering materials, agriculture implements, dyeing and printing, manufacture of jewellery, canning and preservation of fish, starch, cutlery, locks, rubberised coir products, cycle parts and sewing machines.

Preference has been given under the public sector to the expansion and modernisation of the existing industrial units. During the year 1965-66 among six Government owned companies namely : Trivandrum Rubber Works, Trivandrum Spinning Mills Ltd., The Kerala Ceramics Ltd., Kerala Electrical and Allied Engineering Company Ltd., Travancore Plywood Industries Ltd., and Kerala Soaps and Oil Ltd. ; most of them were working satisfactorily. During 1966-67 only one public Limited Company and nineteen Private Limited Companies were newly registered in Kerala.

Under the private sector, the Kerala State Industrial Development Corporation (KIDC) has been organised to help capital formation in respect of deserving enterprises. The Corporation has undertaken to offer financial and technical services to industrialists for setting up industries.

Plantation Industry : The programme of development comprises planting by Government and individuals and encouraging distribution of loans to auction purchasers of forest lands. With this end in view Government have reconstituted the Plantation Corporation of Kerala.

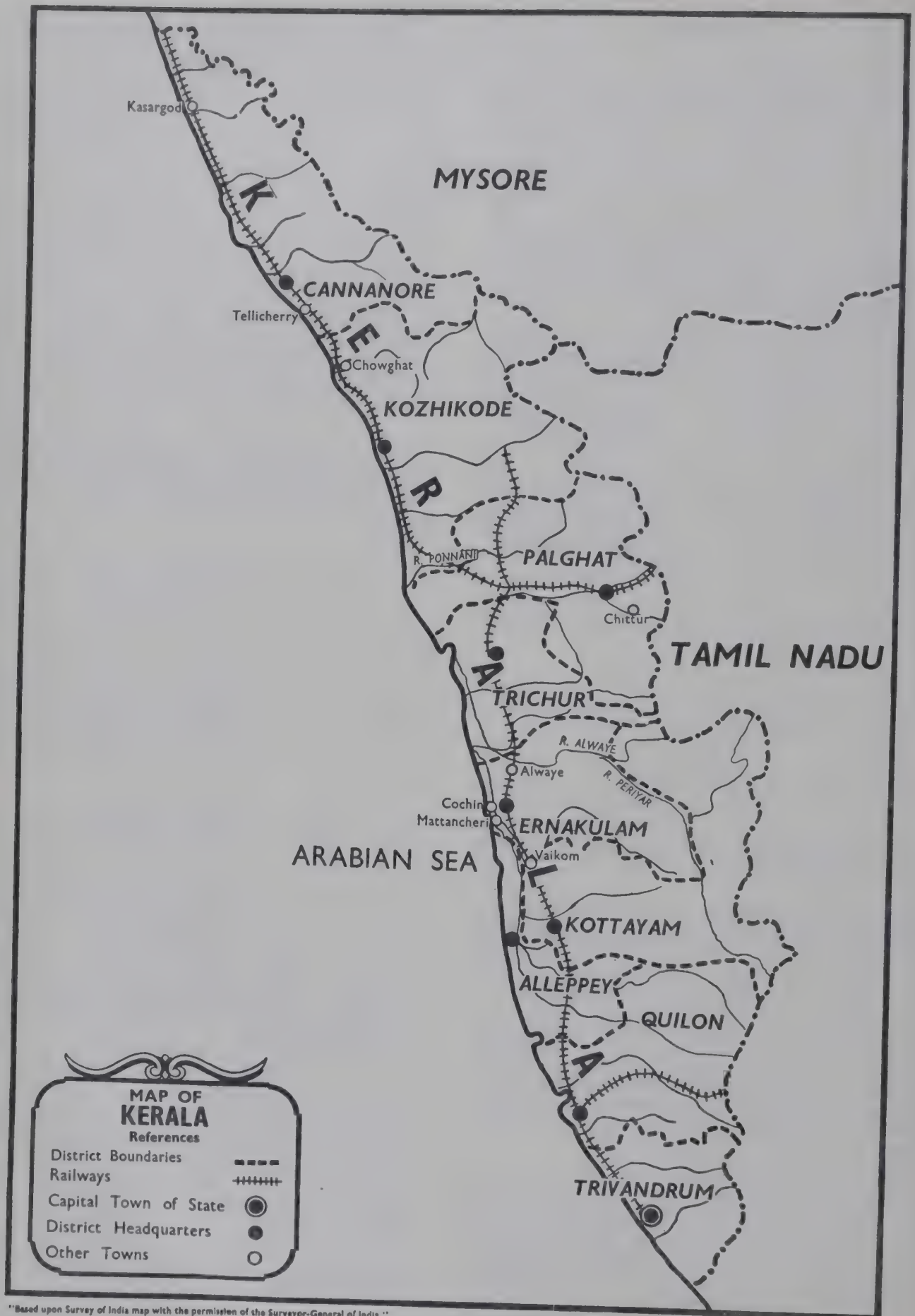
Village and Small Industries : To promote the growth of industries in the rural and underdeveloped areas, a scheme of giving subsidies to small scale industrialists starting industries in such areas, has been drawn up. The Kerala State Small Industries Development Corporation have taken up works in connection with the above programmes.

Industrial Estates : During 1966-67 there were eighteen Industrial Estates under the management of the Kerala State Small Industries Corporation.

"Small Scale production in NES Blocks" has been taken up for implementation during the first phase of the Fourth Five Year Plan. The programme was to establish small scale production centres preferably in NES Block areas each costing Rs. one lakh. During the year Government have accorded sanction for starting 2 units in each of the District. For this the scheme has been selected and approval accorded for implementation. 776 Small Scale Industries Units have been registered with the Department during the year.

The establishment of development areas in all the districts is an important item in the industrial development in the State which has acquired added significance in the context of the Industrial policy announced by Government. According to the Scheme, Development Areas have been established at Kadakampally and Akulam in Trivandrum District, Aroor in Alleppey District, Edayar and Angamaly in Ernakulam District and Pudussery in Palghat District.

A common facility service centre for industries based on rubber and plastics is programmed to be implemented at Changanacherry.



"Based upon Survey of India map with the permission of the Surveyor-General of India."

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Industrial Co-operative Societies: There were 2,031 industrial Cooperative Societies in the State at the end of the year. These societies had 1,61,012 members at the close of the year. The value of goods produced in all these societies amounted to Rs. 83,19,406.

Handicrafts: Brass and bell metal work, handloom furnishing fabrics and lace cloth, screwpine, kora grass and palmyra leaf weaving, rattan work, kuft gari, bamboo and reed weaving, Kathakali costumes manufacture, traditional folk jewellery making, Aranmula Metal Mirror making, laminated woodwork, toys and dolls making, lace and embroidery, lacquerware, ivory, horn, wood, coconut shell carvings, etc. are the important handicrafts of this State. There are about 15,000 persons employed in 3,000 establishments in these crafts. There are about 300 Handicraft Co-operatives in the State.

With a view to developing the handicrafts industry in Kerala, boost the export of handicraft articles and render assistance to the artisans both in the co-operative sector and outside, the "Handicrafts Development Corporation of Kerala Private Ltd.," has been registered in November 1968. The authorised capital is Rs. 50 lakhs divided into 50,000 equity shares of Rs. 100 each. Government propose subscribing to shares worth Rs. 20 lakhs at present.

Handloom Industries: Total No. of looms in the State: 1,20,000; Total No. of looms in the Co-operative fold (Regd.) as on March 31, 1966: 45,401; Total No. of looms registered outside Co-operative fold as on March 31, 1966: 63,596; Total No. of societies in the State as on March 31, 1967: 401; Total No. of individual members as on 30th June 1967: 51,808; Total paid-up share capital as in June 1967: Rs. 32,01,515; value of goods produced in all the societies: Rs. 2,55,59,820; the amount of sales: Rs. 2,46,03,068.

6,42,996 metres of handloom cloth were produced in 1966-67, out of which 25,582 metres were from co-operative sector. The production of powerloom cloth was 13.5 lakh metres, of the value of Rs. 15.6 lakhs.

Government of India have allotted 3,900 powerlooms to the State for installation during the Fourth Plan period. The looms are intended to be installed in the Co-operative and Private Sectors.

With a view to rendering assistance to private individuals engaged in handloom industry outside the Co-operative Sector, Government constituted the Handloom Finance Corporation with an authorised capital of Rs. 1 crore.

Cashew Industry: There are about 250 cashew processing factories in India of which nearly 75 per cent are in Kerala, employing more than a lakh workers.

Coir Industry: The important items in the programme will be the organisation of primary coir co-operatives, coir marketing societies, and societies for the manufacture of mats and mattings, ropes, bristle and mattress fibre. A model coir factory has already been organised at Beypore to modernise the manufacturing side of the coir industry. Total number of primary Coir Co-operative Societies (figures for 1966-67): 502; membership in all the Societies: 1,17,174; Paid-up share capital Rs. 17,52,551.

Khadi and Village Industries: The Kerala Khadi and Village Industries Board was constituted in August 1957 so as to help the villagers in organising co-operatives and

to give loans and grants and other technical assistance for the development of Village and Cottage Industries such as Khadi and Ambar, village oil, hand-pounding of paddy, village pottery, non-edible oil soap, handmade paper, gur, khandsari, bee-keeping, village leather, palm gur, fibre, carpentry, blacksmithy, etc. Financial assistance for the development of Khadi and 14 other village industries is being given by the Board.

The value of village industries products rose from Rs. 227.77 lakhs in 1965-66 to Rs. 236.83 lakhs in 1966-67. The production in 1966-67 was nearly 4 per cent higher than that in 1965-66. The major Khadi production Centre at Payyannur is run by the Board. The production of the Centre in 1966-67 was to the value of Rs. 8.78 lakhs. There were 3,744 spinners and 187 weavers in the centre by the end of 1966-67.

Chief minerals produced in the State: The beach sands contain the much valued and strategic mineral monazite besides five others of great economic value namely ilmenite, rutile, zircon, sillimanite and garnet. The extensive white clay deposits contribute to the ceramic industry. Other minerals available are mica, graphite, limestone, quartz-sand and lignite.

Substantial white sand reserves suitable for glass manufacture have been found in some places of Alleppey and Ernakulam Districts. Deposits of Kaolin have been found in Kundara, Quilon District and several other places in the districts of Trichur and Cannanore.

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LABOUR

Names of industries in which a minimum wage is fixed: For the whole State: Rice mill, flour mill or dal mill, beedi making, cigar making, plantations (coffee, tea, rubber & cardamom), oil milling, local authorities (municipalities and Panchayats), construction and maintenance of roads and buildings, stone breaking and crushing, public motor transport, tanneries and leather manufactory, match industry, shops and establishments including hotels and restaurants, cashew industry, tile industry, printing presses, timber industry, toddy tapping, agriculture, coir manufacture, plywood industry and minor ports.

Revision of minimum wages in 1967: Match Industry, Cashew Industry, Shops and Establishments (including hotels and restaurants) and Printing Presses.

In addition to this, wages of the Municipal employees were revised on the basis of the recommendations made by the Wage Board for Municipal Employees.

Number of registered factories in the State as on 31st December 1966: 2,964; Number of working factories in the State as on 31st Dec. 1966: 2,911; Number of working factories which submitted the annual returns: 1,492; Average daily employment in the working factories submitting returns: 87,819. Total average daily employment in all the registered working factories (estimated) 1,98,465.

Number of accidents in registered factories during 1966 (including fatal cases): 2,556.

Number of fatal accidents: 7.

Number of registered Trade Unions as on 31st December 1966: 1,891.

Kerala Labour and Industrial Bureau: The Bureau will promote and co-ordinate research in labour and industrial problems, including organisational and administrative aspects. It will also foster the application of research in the development of commerce, trade and industry and for the fruitful utilisation of natural resources in the industrialisation of the State.

The Bureau has initiated an 'industry study series' intended to give wide knowledge of the problems of industrial development in general and more in particular of those concerning the economy of Kerala. The Bureau has published books on 'Cashew Industries' and 'Plywood Industries' in Kerala. A book on Match Industry in Kerala is ready for publication. The work on tile industry is in progress.

Equipment: Ploughs (wooden: 562,281; iron: 6,441); carts: 21,040; sugarcane crushers (power 175; bullocks 1,071); oil engines: 3,372; electric pumps: 2,565; tractors: 276; Ghoris (more than 5 seers: 2,058; less than 5 seers: 2,164).

LIVESTOCK 1966

(See under main article "Livestock")

AGRICULTURE

The per capita extent of cultivated area is 0.11 hectare (1966-67).

Foodcrops: Rice, jowar, ragi, other cereals and millets, tur, other pulses, sugarcane, pepper, chillies, ginger, turmeric, cardamom, betelnut, mango, citrus fruits, banana (including plantains), cashewnut, tapioca, sweet potato and onion.

Main cash crops of the State: Coconut, Arecanut, Tea, Coffee, Cardamom, Rubber, Pepper, Gingelly, Cotton, Turmeric, Sugarcane, Ginger, Lemon grass, Groundnut and Cashewnut.

Equipment (agricultural 1966): Wooden ploughs 4,75,930; Iron ploughs 17,179; Carts 16,309; Sugarcane Crushers (power) 457; Sugarcane Crushers (bullocks) 989; Oil engines 6,824; Electric pumps 4,869; Tractors 418; Ghanies (more than 5 Kgms.) 692; Ghanies (less than 5 Kgms.) 628.

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Head Office: Yusuf Building, Mahatma Gandhi
Road, Bombay-1.

For further details please see Bombay
Commercial Firms Section.

PARTICULARS OF WORKSTOPPAGES DURING 1967

BY CAUSES			DETAILS OF WORK STOPPAGES										RESULT			METHOD OF SETTLEMENT										No. of strikes continuing at the end of the year 1967				
Industry	Total No. of disputes										Wages and allowance	Bonus	Working condition		Retrenchment	Others	No. of workers normally employed	No. of workers affected	Total No. of Man days lost	Successful	Partially successful	Unsuccessful	Indefinite	Mediation	Conciliation	Adjudication	Direct negotiation	Others	No. of token strikes	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21									
Plantations	..	42	21	8	..	1	12	7,500	7,932	39,831	27	5	..	..	6	10	..	15	1	8	2									
Textiles	..	31	6	3	1	..	21	11,933	6,679	94,033	16	8	1	..	3	16	..	6	..	6	..									
Coir	..	5	4	..	1	..	..	405	354	12,724	3	2	..	..	1	2	..	2	..	..	..						
Saw Mills	..	16	4	..	2	..	10	1,217	1,085	16,050	10	2	..	..	4	5	1	3	..	3	..									
Tiles	..	22	9	4	2	..	7	3,531	2,761	37,026	9	8	1	..	3	9	..	3	3	2	..									
Cashew	..	11	9	..	1	..	1	67,717	66,765	15,28,950	7	4	..	..	3	6	..	2	..	..	..						
Others..	..	170	113	14	3	3	37	73,435	66,477	6,44,239	115	26	4	4	33	77	..	29	10	17	4									
Total	297	166	29	10	4	88	1,65,738	1,52,053	23,72,853	187	55	6	5	53	125	1	60	14	36	2									

Classification of area in hectares as on 30th June 1967: Forests 10,55,832; Barren and uncultivable land 1,00,437; land put to non-agricultural use 2,35,321; cultivable waste 1,05,651; permanent pastures and grazing lands 27,800; land under miscellaneous crops not included in net area sown 1,81,842; fallow land other than current fallows 33,965; Current fallow 26,446; net area sown 20,91,229; area sown more than once 5,30,742; total cropped area 26,21,971; net area irrigated 3,93,410; gross area irrigated 5,26,800.

Total number of rubber, coffee and tea plantations: Rubber 88,156 (as on 31st Dec. 1967); Tea 2,437 (as on 31st Dec. 1965); Coffee 18,040 (as on 30th June 1968).

LAND REFORMS

The Kerala Land Reforms (Amendment) Bill, 1968, further to amend the Kerala Land Reforms Act, 1963 has been under consideration of the State Legislative Assembly.

Foreign Aid: The Swiss Government will grant 1,640,000 Swiss francs for carrying out the first stage of a farming development project in Kerala which has been located in the High Ranges.

FISHERIES

See article on 'Fisheries' for details.

FORESTS

The figures relate to 1964-65.

Total forest area in State: 4,088 sq. miles 140 acres; Reserved forests 8,833 sq. km. 38.6 Hectares; reserved lands 142 sq. km. 65.8 Hectares; proposed for fuel and fodder reserves 1 sq. km. 16.5 Hectares; private forests proposed to be acquired 612 sq. miles approximately or 1,590 sq. km.

Location of forests: The main forest tract lies north to south, along the Western Ghats, forming the eastern boundary of the State.

Revenue from the forests: Rs. 5,23,66,036; expenditure: Rs. 1,35,61,607.

Main forest produce: Timber, firewood, bamboos, reeds and ivory.

Quantity of each variety: Timber (round logs) 2,84,662 cum.; Poles 2,49,581 nos.; Firewood 1,35,403.756 tons; Bamboos 90,34,460 nos.; Charcoal 58,690 bags; Ivory 1,342.026 kgs.

TRANSPORT

Total mileage of roads: 15,220 km.

National Highways 448 km.; State Highways 2,470 km.; District Roads 6,608 km.; Village Roads 5,694 km.

Total mileage of waterways: 1,116 miles (Navigable length of rivers 521 miles; navigable length of canals and cross canals 595 miles).

Total number of aerodromes: Two.

Particulars of Ports: Major Ports: 1—Cochin; Intermediate ports: 2—Alleppey and Calicut; Minor Ports: 9—Trivandrum, Quilon, Kollthottam, Ponnani, Badagara, Tellicherry, Cannanore, Azhikkal and Kasargod.

Number of ports and harbours: 11.

Railways (March 31, 1964): Kilometrage: 886.73. (Broad gauge 553.26 and Metre gauge 333.47).

Number of broadcasting stations: 2.

Kerala State Road Transport Corporation:

Capital invested: Rs. 579.04 lakhs (as on 31-3-1966)

Figures for the following items are as on 31-12-1966:

Road mileage monopolised: N.A.

AREA, PRODUCTION AND AVERAGE YIELD OF IMPORTANT CROPS IN KERALA FOR 1966-67

		1965-66			1966-67			
Name of Crop		Area in Hectares	Produc- tion in Tonnes	Average yield per Hect. (kg.)	Remarks	Area in Hectares	Produc- tion in Tonnes	Average yield per Hect. (kg.)
1.	Rice	8,02,329	9,97,489	1,892@	..	7,99,438	10,84,062	1,356
2.	Other Cereals & Millets	6,717	3,121	465	..	6,686	3,106	465
3.	Pulses	43,312	16,901	390	..	43,547	17,071	392
4.	Sugarcane	9,193	40,948	4,454	..	8,773	54,902	6,258
5.	Ginger (Dry)	11,847	11,190	943	..	11,793	11,054	937
6.	Turmeric (Dry)	4,464	3,766	844	Cured	4,443	3,747	843
7.	Banana	10,626	77,421	7,286	..	9,204	67,060	7,286
8.	Plantain	37,153	2,83,701	7,636	..	36,385	2,77,836	7,636
9.	Tapioca	2,29,684	30,95,658	13,478	..	2,44,647	34,09,668	13,937
10.	Sesamum	11,950	2,365	198	..	12,070	2,400	199
11.	Groundnut	15,215	25,220	1,657	..	13,745	23,601	1,717
12.	Black Pepper	99,695	21,685	218	..	99,695	21,406	215
13.	Cashewnut	87,366	98,025	1,122	..	90,533	1,01,607	1,122
14.	Cardamom	28,684	1,606	56	..	47,026	1,606	34
15.	Cocconut	5,86,313	3,293*	5,617	..	6,09,583	3,425*	5,619
16.	Betelnut	64,478	9,681*	1,50,360	..	71,231	10,683*	1,49,977
17.	Cotton	7,160	6,933**	174	..	6,625	6,458**	175
18.	Tea	39,470	39,154	992	..	39,799	44,130	1,109
19.	Coffee	23,602	9,878	418	..	25,152	10,513	418
20.	Rubber	1,49,634	46,953	313	..	1,63,357	50,495	329
21.	Tobacco	705	911	129	..	712	920	129
Total		22,69,597	..	..	..	23,34,494	..	..

* Million nuts.

** Bales of 180 kgs. each.

@ Average yield of paddy.

Road mileage over which services are operated along with private operators as on 31st January 1968 : N.A.

Number of routes : 831.

Route kilometreage : 28,577.

Number of buses owned : 1,106.

Number of lorries owned 64.

Number of other vehicles : 56.

Total number of employees : 10,726 (including daily rated employees).

Passenger earnings (Jan. 1968) : Rs. 85,96,125.

Kilometres operated per day by buses : 2,40,596.

Kilometres operated per day by lorries : 2,832.

Number of persons transported per day : 6,51,816.

Total amount of goods carried : about 16 lorries of 5 tons each a day.

Capital invested : Rs. 684 lakhs.

POWER PROJECTS

Projects in Operation

Pallivasal H. E. Project : In the high ranges in Devicolam below Munnar. Started in 1940. Installed capacity 37,500 kW. Actual production during 1967-68 : 206.21 million units.

Sengulam Hydro-Electric Scheme : The power station is located at Vellathuval below Pallivasal and is a tail race development of Pallivasal scheme. The installed capacity is 48,000 kW. Production during 1967-68 : 118.77 million units.

Poringalkuthu Hydro-Electric Scheme : The power station is located at Poringalkuthu on the Chalakudy river in Trichur District. The installed capacity now is 32,000 kW comprising four generating sets of 8,000 kW each. Production during 1967-68 : 172.44 million units.

Neriamangalam Hydro-Electric Scheme : The power station is located at Panamkutti on the right bank of the Periyar river. The installed capacity of the station is 45,000 kW comprising 3 generating units each of 15,000 kW. The production during 1967-68 : 223.27 m. units.

Panniar Hydro-Electric Scheme : The power house is located on the left bank of the Muthirapuzha river almost opposite to the Sengulam power house. The power station has an installed capacity of 30,000 kW comprising two units each of 15,000 kW. Production during 1967-68 : 60.90 million units.

Sabarigiri (Pamba) Hydro-Electric Project : This envisages development of power from the waters of the Pamba and Kakki rivers. The project was inaugurated on Aug. 28, 1967. The power station has an installed capacity of 300,000 kW, consisting of six units of 50,000 kW each, involving an expenditure of Rs. 40 crores approximately.

The project involved the construction of a 171-ft. high dam across Pamba river, and a 360-ft. high dam across Kakki river, with a saddle dam and inter-connecting tunnel, 10,524 ft. long, between Pamba and Kakki reservoirs.

The head-race tunnel, about 18,000 ft. long, having a capacity of 1,970 cusecs, took off from Kakki reservoir. The project was executed with loan from U.S. AID (Agency for International Development).

4 units of 50 MW capacity each were commissioned between April 1966 and June 1967. The remaining 2 units were commissioned in October and November 1967. During the year 1967-68 the Station generated 521.18 million units.

The present installed capacity of the Hydro Electric Stations in the State is 546,500 kW. The energy output from the hydro electric stations during the year 1967-68 was 1,407 million units.

Sholayar Hydro-Electric Scheme : This scheme is located on the bank of the Sholayar river, a tributary of the Chalakudy river in Trichur District. The generating station has three sets each of 18,000 kW capacity. The estimated cost of the scheme is Rs. 650 lakhs. The first unit of 18,000 kW capacity was commissioned in May 1966. The remaining two units were commissioned in January and May 1968. Production during 1967-68 was 103.7 million units.

Projects of the Third Five-Year Plan

Idikki H. E. Project : This is the largest hydro electric scheme planned for execution in the State with Canadian assistance having an installed capacity of 780,000 kW. The first stage of the scheme estimated to cost Rs. 6,820 lakhs will have an installed capacity of 390 MW, developing firm power of 210 MW at 100 per cent load factor. The scheme after completion will irrigate 115,000 acres in Thodupuzha, Meenachil and Vaikom Taluks and will be located in the Kottayam and Ernakulam Districts across the Periyar River. The first unit of 130 MW capacity is expected to be in service by the end of 1971.

Kuttiadi H. E. Project : The project envisages power development from the Kuttiadi river in Malabar area of this State. The scheme estimated to cost Rs. 736 lakhs will contribute 245 million units to the energy potential of the grid. The power station will have an installed capacity of 75,000 kW comprising three units of 25 MW each.

It is proposed to inter-connect the Kerala and Madras power systems through a 220 kV transmission line during 1968-69. The 220 kV inter State line was to be commissioned by the end of 1968.

Transmission lines have been constructed in the Malabar area of the State and a major portion of the load in this area is being met from the Kerala grid. Power is being purchased from Mysore for distribution in Malabar area through a temporary 110 kV inter-State link.

Projects in the Fourth Five-Year Plan :

Eight new H.E. Projects including the second stage expansion of the Idikki H.E. Project are proposed to be taken up during the IV Plan. It is also proposed to take up the installation of a 55 MW thermal station during the IV Plan.

IRRIGATION

Major Irrigation Schemes : The following are the major irrigation projects :

Name of Scheme			Estimated cost in Rs. lakhs	Area to be served in acres
1.	Malampuzha	.. ..	580.00	47,600
2.	Walayar	.. ..	131.66	8,000
3.	Mangalam	.. ..	106.00	8,000
4.	Vazhani	.. ..	107.57	8,810
5.	Peechi	.. ..	235.00	43,380
6.	Chalakudy (1st stage)	.. ..	153.25	28,400
	(2nd stage)	.. ..	60.00	20,250
7.	Neyyar (1st stage)	.. ..	226.00	19,000
	(2nd stage)	.. ..	170.00	10,000
8.	Gayathri	.. ..	220.00	13,500
9.	Kallada	.. ..	1,328.00	1,30,000
10.	Pamba	.. ..	863.12	33,900
11.	Kuttiadi	.. ..	496.04	36,000
12.	Kanjirapuzha	.. ..	365.10	24,000
13.	Chittoorpuzha	.. ..	105.63	27,800
14.	Pazhassi	.. ..	442.40	40,000
15.	Pothundy	.. ..	234.25	11,000
16.	Cheerakuzhy	.. ..	90.76	4,000
17.	Periyar Valley	.. ..	640.00	63,300

IRRIGATION—(Contd.)

Name of Scheme	Estimated cost in Rs. lakhs	Area to be served in acres
<i>Land Development Schemes :</i>		
1. Thannirmukkom Regulator	313.00	1,21,000
2. Kattampally	52.81	4,000

Of the above schemes Malampuzha, Walayar, Mangalam, Vazhani and Peechi Schemes and the 1st stage of Chalakudy have been fully commissioned.

Besides these, the schemes viz., Chalakudy second stage, Neyyar second stage, Gayathri (Meenara including Chulliar), Pothundy, Cheerakuzhy and Periyar Valley were started during the Second Five Year Plan and the scheme Chalakudy second stage has been commissioned. Gayathri scheme first stage has been completed. Schemes viz. Chulliar (Gayathri 2nd stage), Neyyar I & II Stages and Cheerakuzhy are nearing completion. Both the schemes are in good progress. Periyar Valley has been partially commissioned. Work in Pothundy project nearing completion.

Six new projects had been taken up for execution during the Third Five Year Plan and they are Kallada, Pamba, Kuttiadi, Kanjirapuzha, Pazhassi and Chittoorpuzha. Works in these projects are in various stages of progress.

Work relating to the regulator at Thannirmukkom, the Second stage of the Kuttanad Development Scheme is in progress and the Kattampally Project is completed. When the second stage of the Kuttanad Development Scheme is completed, an area of about 1,21,000 acres will be benefited in the Kuttanad area.

Shipyard : The work on the second shipyard at Cochin is expected to start during the Fourth Plan period.

The Union Government proposes to build at Cochin ocean-going steamers with 20,000-ton displacement.

Land Tenure : There are a number of land tenure systems in the State. Janmam lands, Pandaram, Kanapattam, Verumpattam, Adima, Anubhogam, etc., are some of these.

Panchayati Raj : Elected panchayats are now functioning all over the State.

EDUCATION

Particulars showing the number of students in schools run by Government and private bodies respectively within brackets for 1966-67 were as follows :—

Number of students under instruction 43,28,638 (23,33,938 boys, 19,94,700 girls); Percentage of the total number of pupils under instruction to the total population : 22.62.

Percentage of literacy (1961 Census) : 46.2.

18.87 lakhs of children participated in the CARE feeding programme and an amount of Rs. 45.33 lakhs has been spent during 1966-67.

Gross expenditure on General Education during 1966-67 : Rs. 28,40,47,757.51.

SPECIAL SCHOOLS

Strength of students in each category of Spl. Schools with classification of boys and girls respectively in brackets are as follows :—

Nursery Schools 8,442 (4,248 boys and 4,194 girls); Schools for the handicapped 455 (350 boys and 105 girls); Training Schools 14,526 (5,288 men and 9,238 women).

DISTRIBUTION OF INSTITUTIONS

Number of educational institutions under each category with number of Govt. institutions in brackets respectively are as follows :—

Secondary High School 1,265 (391); Post Basic Schools 3 (—); Anglo Indian Schools 7 (—); Upper Primary Schools 2,402 (756); Senior Basic Schools 71 (22); Anglo Indian U.P. Schools 2 (2); Lower Primary Schools 6,571 (2,695); Junior Basic Schools 361 (166); Anglo Indian L.P. Schools 1 (—); Basic Training Schools 104 (31); Anglo Indian Training Schools 1 (—); Nursery Training Schools 3 (3); Pre-Primary Schools 155 (23); Fine Arts Schools 2 (2); Schools for the Handicapped 7 (5); Hindi Training College 1 (1); Basic Training College for teachers 1 (1); Language Teachers Training Centre 5 (5); Total 10,962 (4,101).

For educational statistics see under "Educational Statistics".

Total number of arts and science colleges (Govt.) as of December 1965 : 10; Govt. Training Colleges 4; Govt. Physical Education Colleges 2; Govt. Sanskrit Colleges 3; Govt. Music College 1; Govt. Music Academies 2.

No. of technical institutes in Kerala State under the Directorate of Technical Education : *Public Sector* : Ten. *Private Sector* : Six.

Craft education in various subjects such as bookbinding, cutting and tailoring, coir work, rattan work, gardening, spinning and weaving, fishing, wood work, etc., has been introduced in all the upper primary and secondary schools, the subjects chosen in each school being dependent upon the availability of raw materials and local conditions.

PUBLIC HEALTH

Figures as on 1-1-1967 :

Number of medical institutions 484; Government hospitals 103; Govt. dispensaries 216; Primary health centres (including M. C. H. Centres) 163; grant-in-aid institutions 14; secondary health centres 1; mobile dispensary 1; beds (Govt.) 17,926; beds (grant-in-aid) 1,140; out-patients treated 2,32,24,990; in-patients treated during 1965 8,05,448; out-patients treated in grant-in-aid institutions 2,71,262; in-patients treated in grant-in-aid institutions 16,767.

FOURTH FIVE-YEAR PLAN

(See under main article on "Fourth Five-Year Plan".)

UNIVERSITY OF KERALA

Trivandrum.

(The University of Travancore was reconstituted as the University of Kerala with effect from 30th August 1957).

Chancellor, V. Viswanathan (*Governor of Kerala*). *Pro-Chancellor*, C. H. Mohammed Koya, Minister for Education, Kerala. *Vice-Chancellor*, Dr. A. Aiyappan, *Registrar*, A. Sreedhara Menon, M.A., A.M. (Harvard).

Type of University : Teaching and Federal.

Subjects in which there is provision for post-graduate teaching and or research courses leading to the M.A., M.Sc., Ph.D. and D.Sc. Degrees : English, History, Economics, Politics, Philosophy, Psychology, Social Work, Sociology, Education, Mathematics, Physics, Applied Physics, Chemistry, Applied Chemistry, Analytical Chemistry, Botany, Genetics & Plant Breeding, Zoology, Statistics, Geology, Home Science, Demography, Malayalam, Tamil, Sanskrit, Hindi, Linguistics, Marine Biology, Oceanography, Law, Engineering, Medicine; Dental Surgery, Commerce and Agriculture.

Number of colleges under the University : Arts and Science Colleges 49 ; Professional Colleges 25 ; Colleges under the Faculty of Oriental Studies 3 ; Junior Colleges 26.

Total number of students in the University during 1967-68 : 99,199 (Men 59,621 ; Women 39,578).

Medium of instruction : English.

Finance :

The year 1966-67 opened with a balance of Rs. 9,86,791. The total receipts during the year, under Govt. grant, fees and miscellaneous accounts amounted to Rs. 1,64,54,718.

The total expenditure during the year under the various heads came to Rs. 1,54,19,030. The closing balance for the year came to Rs. 20,22,479.

The colleges in the Trichur, Palghat, Kozhikode and Cannanore (51 Nos.) and other teaching departments (4) at the University Centre, Calicut are under the Control of the Calicut University with effect from June 23, 1968.

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel).

LACCADIVE, MINICOY AND AMINDIVI ISLANDS

H EADQUARTERS : Kavaratti Island. *Administrator*, C. H. Naire, I.F.A.S.

Secretary, P. M. Joseph.

Area : 11 sq. miles ; Pop. : 24,108 (1961 census). Sex ratio : 1,020 females per 1,000 males. Density : 2,192 per sq. mile. Literacy : 23.3 per cent.

Island	Area	Population	Density per sq. mile.
Minicoy ..	1.75 sq. miles	4,138	2,360
Kalpeni ..	1.02 sq. miles	2,613	3,393
Androth ..	1.67 sq. miles	4,183	2,504
Agatti ..	1.08 sq. miles	2,411	2,232
Kavaratti ..	1.35 sq. miles	2,828	2,095
Amini ..	0.97 sq. mile	3,531	3,640
Kadmat ..	1.17 sq. miles	1,851	1,582
Chetlat ..	0.39 sq. mile	953	2,451
Kiltan ..	0.62 sq. mile	1,520	2,443
Bitra ..	0.05 sq. mile	80	1,600

The Laccadive, Minicoy and Amindivi group of Islands form a small sprawling group of coral islands in the Arabian Sea, lying between the latitudes of 8° and 12° north lat. and they now constitute a Union Territory under an Administrator.

Ten of the islands are inhabited out of a total number of 20. Minicoy, Kalpeni, Kavaratti, Agatti and Androth lie in the Laccadive group and Amini, Kadmat, Kiltan, Chetlat and Bitra in the Amindivi group.

The islands lie from north to south, Minicoy being the southernmost and Chetlat the northernmost. They are within 20 to 114 miles away from one another except Amini and Kadmat which are only six miles apart. The islands lie 125 to 250 miles off the Kerala coast.

Mainly as a result of isolation, the Islanders have remained backward economically. They have been declared 'Scheduled Tribes' but in reality are far more advanced than tribes elsewhere.

The Judiciary of the Union Territory is under the jurisdiction of the Kerala High Court. The LM & A Islands (Civil Courts) Regulation which came into force from November 1967, have replaced the traditional courts of Village headmen which functioned in the Territory, by regular courts. There are now four Munsiff Courts and one court of the Subordinate Judge for the administration of Civil Justice, and four Sub-Magistrates Court and one District Magistrate's Court for the administration of Criminal Justice in the Territory. The sessions

jurisdiction is vested in the Sessions Judge of Tellicherry in Kerala State.

For the first time one member has been elected to the Lok Sabha from the Islands in the General Election held in Feb. 1967. Till 1967 there was a nominated member from this Territory in the Lok Sabha.

ECONOMY

The main industry on the islands is production of coir.

During the Second Plan about 800 people were trained in improved methods of coir twisting on charkas at the Coir-cum-Training-cum-Production centres. A handloom weaving centre was started at Agatti during 1960-61. A few islanders have been trained in weaving and they produce clothing to meet local needs. An oil mill has been started in Kavaratti under the Co-operative Sector, during 1966. A hosiery factory has been set up in Kalpeni. A unit for the manufacture of curled fibre from coconut husks is under erection in Androth Island.

AGRICULTURE

The only agriculture on the islands is coconut cultivation. Cultivation of coconuts is now done scientifically with departmental advice and direction.

ANIMAL HUSBANDRY

Six poultry units and a model poultry farm were started during the IInd Plan. There are a farm and a veterinary hospital at Kavaratti and a new poultry farm has been opened at Androth Island also. Good quality bucks are supplied to all islands to improve goat rearing. A Dairy Farm has also been opened in Kavaratti island.

FISHERIES

Fisheries development has been taken on a fairly big scale. On Minicoy, the bonito or mass fishing forms an important and valuable industry. This industry has been extended to Kavaratti and Agatti Islands.

A small unit for canning tuna fish was opened at Agatti Island. Another canning unit is expected to be opened at Minicoy shortly. In order to popularise modern fishing techniques, the Fisheries Department has been giving modern fishery requisites to the people at subsidised rates. The Department has a Boat Building Yard where all types of mechanised boats required in the Territory are now built.

CO-OPERATION

All the Islands have now Co-operative Societies, which supply the consumer goods needed by the islanders. They also market the island's products like copra on the mainland markets. During 1966-67 consumer goods worth

Rs. 37.5 lakhs were supplied by the co-operative societies and the total value of copra marketed through them came to Rs. 28 lakhs. A Co-operative Marketing Federation has been registered in 1966 to centralise marketing activities of the various Co-operative Societies in the Islands.

PUBLIC HEALTH

Leprosy was on the increase in two islands, Minicoy and Androth which have now been brought under control. A leprosy colony started in 1952 at Androth with the aid of a local committee has been taken over by the Government.

In Minicoy too there is a leprosy colony. At Kadmat another colony was started on Sept. 22, 1960. The spread of this dire disease has been brought under control. Filariasis has also been brought under control. A recent survey has shown that the overall rate of filariasis has come down from 14.8 per cent in 1951 to 6.08 per cent.

There are two hospitals at Kavaratti and Minicoy and seven primary health centres in the Union Territory at present. Each Island has a Medical Officer. In addition to this, there is one Lady Medical Officer each for Minicoy and Kavaratti and another for the remaining Islands.

Medical aid is free in all the islands. Acute cases which cannot be treated in the islands are brought to the mainland and the patient is provided facilities to get free medical aid and the expenses.

EDUCATION

There are three high schools, one higher secondary school, 10 senior basic schools, 18 junior basic schools, six nursery schools in the islands at present. When the Administration took over in 1956 there were only nine incomplete elementary schools. From 1,521 students in 1956-57, the strength has increased to 5,497 in 1966-67. The number of teachers has increased from 14 to 286 in 1966-67.

Education is free at all stages. For those going to colleges scholarships are given and free boarding and lodging facilities

are provided. There are at present 111 scholarship holders for post-matriculate courses of which 12 are for M.B.B.S., two for B.Sc. Engineering, one for B.Sc. Agriculture, 10 for various degree courses, 33 for pre-degree courses and the remaining for Arts and Science and other professional courses.

TRANSPORT AND COMMUNICATIONS

The normal communication to the islands is by means of island sailing boats during the months of October to May when the islanders buy all their requirements from the mainland and sell their produce especially copra, coconuts, cadjan leaves, vinegar, palm gur, dried fish and coir in the mainland markets. For the rest of the year the islands practically used to be cut off from any contact with the mainland.

The Administration has now its own ship "M. V. Laccadives" which costs about Rs. 30 lakhs for service to the islands. She can provide accommodation for 39 passengers and carry 100 tons cargo. One more motor vessel has also been chartered for Laccadives Service. A small power launch has also been purchased by the Administration for inter-island communication of touring officials. It is proposed to buy a more powerful launch for this purpose.

Every inhabited Island has a wireless station except the tiny Island of Bitra where the population is less than 100.

There are post offices in all the islands and money order facilities have been provided.

POWER

It is proposed to electrify all the islands by the end of the Fourth Five-Year Plan. So far electricity has been introduced in five islands, viz : Minicoy, Amini, Kavaratti, Androth and Kalpeni Islands.

FOURTH FIVE-YEAR PLAN

(See main article).

MADHYA PRADESH

Area : 171,217 square miles.

Population (1961) : 32.37 million. Percentage of increase 1951-61 : 24.17 ; density 189 ; sex ratio 953 females for every 1,000 males ; literacy 17.1 per cent. For district population see under "Population".

Main languages spoken in the State are : Hindi, Urdu, Marathi, Rajasthani, Gujarati, Sindhi.

ADMINISTRATIVE SET-UP

The State has been split up into the following seven divisions namely Bhopal, Bilaspur, Gwalior, Indore, Jabalpur, Raipur and Rewa. The following are the names in italics of the headquarters of the divisions with the area in sq. miles of each division and names of districts (headquarters in brackets) under their charge :—

- (1) *Bhopal* (22,233) : Raisen (Raisen) ; Hoshangabad (Hoshangabad) ; Betul (Betul) ; Rajgarh (Rajgarh) ; Shajapur (Shajapur).
- (2) *Bilaspur* (21,305) : Bilaspur (Bilaspur) ; Raigarh (Raigarh) ; Surguja (Ambikapur).
- (3) *Gwalior* (17,253) : Gwalior (Gwalior) ; Bhind (Bhind) ; Morena (Morena) ; Shivpuri (Shivpuri) ; Guna (Guna) ; Datia (Datia).

- (4) *Indore* (27,341) : Indore (Indore) ; Ratlam (Ratlam) ; Ujjain (Ujjain) ; Mandsaur (Mandsaur) ; Dewas (Dewas) ; Dhar (Dhar) ; Jhabua (Jhabua) ; West Nimar (Khargone) ; East Nimar (Khandwa).

- (5) *Jabalpur* (29,326) : Jabalpur (Jabalpur) ; Balaghat (Balaghat) ; Chhindwara (Chhindwara) ; Seoni (Seoni) ; Sagar (Sagar) ; Mandla (Mandla) ; Damoh (Damoh) ; Narsimhapur (Narsimhapur).

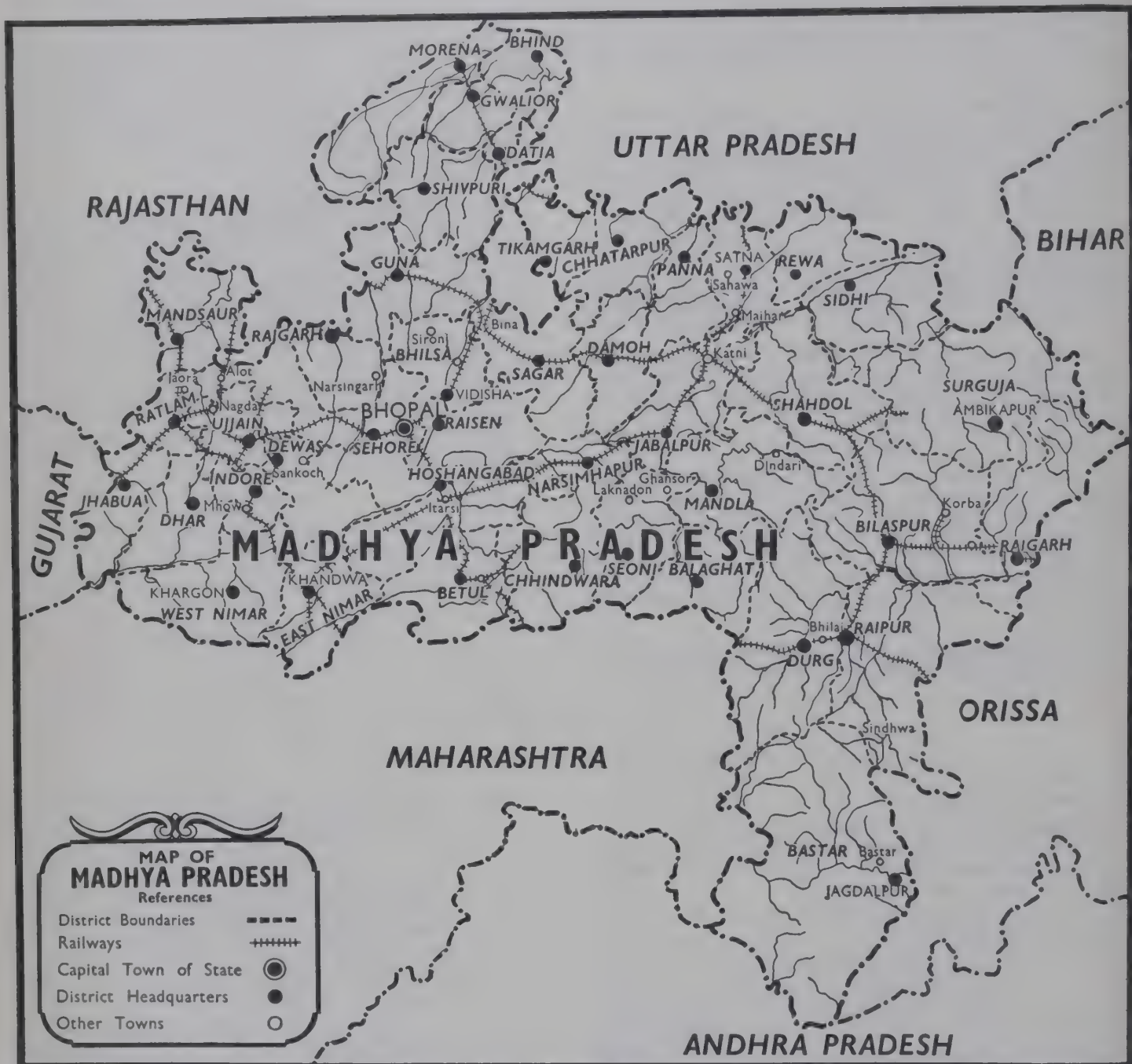
- (6) *Raipur* (30,914) : Raipur (Raipur) ; Bastar (Jagdalpur) ; Durg (Durg).

- (7) *Rewa* (22,845) : Rewa (Rewa) ; Sidhi (Sidhi) ; Satna (Satna) ; Panna (Panna) ; Chhatarpur (Chhatarpur) ; Tikamgarh (Tikamgarh) ; Shahdol (Shahdol).

Number of Districts 43 ; Number of Tahsils 190 ; Number of Municipalities 160.

PANCHAYATS

The Madhya Pradesh Panchayat Act 1962 envisages a three-tier system of panchayats, viz., Gram Panchayats at Village Level, Janpada Panchayats at Block Level and Zila Panchayats at District Level.



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For the purpose of constituting Gram Panchayats, the State has been divided into 12,801 Gram Sabha areas, comprising 1,81,448 wards. The 12,801 Gram Panchayats have started functioning in 1965. Out of these, two have been converted into Municipal Councils.

2,373 Nyaya Panchayats have been established in July 1966 under the new Act.

FOREST

About 2/5th of the State's lands are classed as forest, out of which 66,000 sq. miles are in charge of the State Forest Department for management. Forest area per thousand persons works out to 1,660 acres. Roughly the State contains about 14,500 sq. miles of teak forest,

another 16,000 sq. miles of 'Sal' forest and the remaining 35,500 sq. miles of mixed forest, the large area of which may grow teak. Other important species are Bija, Saj, Tinsa, Salai, Semal and Haldu. An amount of Rs. 757.63 lakhs was spent on various forest development schemes during last three Five-Year Plans. State trading of tendu leaves has been introduced to augment the revenue. The State forests yielded a revenue of more than Rs. 16 crores during the year 1965-66 as compared to Rs. 6.14 crores in the year 1956-57.

MINERALS

Madhya Pradesh is one of the richest States in the country in mineral resources.

Place of occurrence, estimated reserve and production & value of major category of minerals in the State during 1967.

Minerals	Districts of Occurrence	Estimated reserve in million tons	Production in lakh tonnes	Value Rs. in lakhs
Iron Ore	Bastar, Durg, Jabalpur & Gwalior	1,564.00	47.62	336.67
Manganese Ore	Balaghat, Chindwara, Jhabua, Jabalpur, Mandla and Seoni	55.00	2.82	287.98
Bauxite	Surguja, Bilaspur, Shahdol, Jabalpur, Bastar, Raigarh and Mandla.. ..	33.00	1.67	16.91
Lime Stone & Dolomite	Durg, Bilaspur, Satna and Jabalpur	1,601.56 80.00	36.46 4.49	313.55 41.33
Coal	Sidhi	8,210.00	107.65	3,167.87
Diamond	Panna, Satna	4.62 (a)	76.26(b)	31.67

OTHER IMPORTANT MINERALS

Minerals	District of occurrences	Production in tonnes 1965 (R) 1966 (P)
Fireclay & Chinaclay	Jabalpur, Chhindwara, Bilaspur, Mand-saur, Satna, Shahdol, Nar-simhapur, Sidhi, Bastar & Surguja districts	1,02,304 69,460
Ochres	Jabalpur, Satna, Gwalior, Panna, Rewa districts	17,518 12,204
Silica sand & Quartz	Morena, Dewas, Satna, Rewa, Jabalpur, Vidi-sha and Durg districts	33,008 25,983
Steatite	Jabalpur, Jhabua & Durg districts	9,569 5,057
Shale	Mandsaur and Satna districts.	2,77,789 (boxes) 3,02,519 (boxes)

(R) Revised (P) Provisional

The total value of all minerals produced in the year 1967 was Rs. 42.42 crores as against Rs. 36.04 crores in 1966.

(a) million carats (b) carats

TRANSPORT (As on 31st August 1968)

The Madhya Pradesh State Road Transport Corporation is operating bus services on 840 routes by pressing into service 1,537 vehicles. These vehicles cover a daily run of 3,30,932 kms. per day and carry approximately 3 lakh passengers daily.

MEDIUM AND LARGE-SCALE INDUSTRY

Main medium & large-scale industries of the State with location in brackets:—

Cotton Textiles (Indore 7, Gwalior 2, Ujjain 3, Mandsaur 1, Dewas 1, Ratlam 1, Bhopal 1, Burhanpur 1, Rajnandgaon 1, Jabalpur 1, Sanawad 1); News Print Paper Mill (Nepanagar); Cement (Banmore, Kymore, Satna, Jamul); Sugar (Jaora, Dalauda, Mehidpur, Dabra, Sehore); Pot-teries (Gwalior, Ratlam, Jabalpur); Refractories (Jabalpur, Katni, Newar); Iron and Steel (Bhilai); Heavy Electrical equipment (Bhopal); Jute Mill (Raigarh); Art Silk Fabrics (Indore, Gwalior, Ujjain, Nagda); Staple Fibre Yarn (Nagda); Viscose Staple Fibre (Nagda); Sulphuric Acid (Nagda, Kumhari); Superphosphate (Kumhari); Carbon-di-Sulphide and Anhydrous Sodium Sulphate (Nagda); Glue (Bhopal); Asbestos Cement Sheets (Katni); Roller Flour Mill (Indore, Ujjain, Bhopal, Ganj Basoda, Raipur); Biscuits (Indore, Gwalior); Textile Machinery (Gwalior); Welding Electrodes (Raipur, Indore); Power Driven Pumps (Dewas); Steel Castings (Indore, Kumhari, Raipur); Re-rolling Mill (Kumhari, Raipur, Indore, Ujjain, Bangrod); Vegetable Oil (Dewas, Khandwa, Ujjain, Ganj Basoda); Vanaspati (Indore); Alcohol (Ratlam, Burwaha); Valves (Bhopal); Densified Wood (Bhopal); Cables (Satna); Police Boots (Morar); Straw Board (Bhopal, Ratlam); Glass (Jabalpur); Starch (Mandsaur).

The Cotton Textile Industry in the State has 12,539 looms and 5,28,080 spindles in 20 mills (12 composite, and 3 spinning).

The State-owned Cotton Spinning Mill at Sanawad has been licensed to expand their capacity from 12,500 spindles to 25,000 spindles and this is in progress. A licence has also been given for a co-operative Cotton Spinning Mill for 12,500 spindles at Burhanpur.

The biggest cement factory in the country is situated at Kymore near Katni. Other cement factories are at Banmore, Satna and Jamul. Messrs. Audh Sugar Mills have been licensed to set up a unit at Maihar, District Satna, to produce two lakh tonnes of cement per year. Work is fast progressing.

The country's only Newsprint paper mill is situated at Nepa Nagar with a rated capacity of 30,000 tonnes per annum. A licence has been given to expand its capacity upto 75,000 tonnes per year of newsprint and this is under progress.

The paper plant, the biggest in Asia having a single unit capacity of 200 tonnes of paper daily has been set up at Amlai in District Shahdol.

The Public Sector Steel Plant has also been licensed to expand the capacity from 2.5 million tonnes per annum to 3.2 million tonnes.

The State-owned Ratlam Alcohol Plant has been licensed to set up a unit to manufacture Carbon-di-Oxide. There is a cable factory at Satna with an investment of Rs. 175 lakhs.

A steel casting factory with 3,000 tonnes capacity has commenced production at Kumhari (Durg).

Messrs. Indore Wire Co. Ltd., Indore licensed to produce 3,000 tonnes of high tensile steel wire and 900 tonnes of mild steel wire per annum respectively has commenced production.

A flour mill of 50 tonnes daily capacity has also gone into production at Manglia (Indore).

Gelatine factory having a production capacity of 1,200 tonnes per annum of gelatine is ready to go into production at Jabalpur.

A moped (Scooter) unit has been established with German collaboration and is almost complete at Gwalior. The unit will produce 7,500 Nos. of mopeds per year and has applied for expansion.

The other important industries for which licences have been given under the Industries (Dev. & Reg.) Act, 1951 for this State are:—Staple fibre manufacturing plant (Nagda), A.C.S.R. Conductors (Gwalior), Transmission Towers (Indore) and Oxygen Gas (Indore, Bhopal).

COTTAGE INDUSTRIES

The State is also famous for traditional village and home crafts. The Handloom Industry has earned a good reputation for its Chanderi and Maheshwari Saris, Kosa Silk and other traditional fabrics. The well-known Handicrafts are printing (Chunari, Handa), leather toys, papier maché, lacquerware articles, rug dolls, Sari supari works, soft stone work, Bhopal zari purses, cow dung toys of Sheopur, stone carving at Gwalior, bell metal articles of Jagdalpur, leather crafts, screw pine articles, palm leaf articles, glass bead, lac ornaments and others.

Main Cottage Industries in the State with location in brackets:—Handloom (1,00,000 looms) spread all over

the State but best developed at (Chanderi, Maheshwar, Burhanpur, Jabalpur, Raipur and Sausar); Kosa Tusar silk (Raigarh, Champa, Bilaspur, Surguja); Mulberry (Indore, Jhabua, Deopur, Dhar); Fine sarees (Chanderi, Maheshwar, Burhanpur); Wood work and lacquerware (Sheopur, Sabalgarh, Budhni, Rewa, Gwalior); Wooden toys (Rewa, Bhopal, Gwalior, Ratlam); Soft-stone (Jabalpur, Chhatarpur); Lac (Seoni, Raipur, Bilaspur, Umaria and Rewa); Saw Milling (Betul, Bhopal, Balaghat, Bilaspur, Raipur, Indore, Jabalpur, Sagar and Mandla); Brassware (Balaghat, Chhindwara, Indore, Gwalior, Raipur and Chhatarpur); Textile handprinting (Ujjain, Mandasaur, Morena, Indore, Hoshangabad); Diamond cutting and polishing (Panna); Papier Maché (Gwalior, Ujjain, Indore); Zari embroidery (Bhopal); Art metalware (Bastar, Betul, Hoshangabad, Satna, Mandla).

LIVESTOCK (1966-67)

Cattle 2,33,32,159; Buffaloes 55,80,147; Sheep 9,42,417; Goats 59,04,619; Horses & Ponies 1,44,720; Other Livestock (Mules, Donkeys, and Pigs) 3,94,447; Total livestock 36,29,850.

Poultry 43,94,870.

AGRICULTURE (1965-66)

Total net area sown : 16,528,816 hectares; Total area under food crops : 14,938,432 hectares; Total net area irrigated : 976,450 hectares.

Production in tonnes : * Rice 1,700,552; Wheat 1,327,263; Jowar (Rabi) 1,313,860; Jowar (Kharif & Rabi) 479,176; Maize 166,756; Bajra 100,292; Barley 847,075; Gram 163,520; Kodon-Kutki 217,055; Tur (Arhar) 35,139; Moong & Moth (Kharif & Rabi) 96,285; Urad (Kharif & Rabi) 35,940; Kulthi (Kharif & Rabi) 135,594; Lac (Tiwra) 135,594; Masur 114,467.

CASH CROPS

Production in tonnes : * Sugarcane (in terms of Gur) 1,84,960; Groundnut 2,65,321; Linseed 70,281; Rape and Mustard 44,497; Castor 810; Tobacco 1,124; Nigarseed 42,530; Cotton (in bales of 180 kgs.) 4,92,404†.

CEILING ON AGRICULTURAL HOLDINGS

The achievements made in the implementation of the Ceiling on Agricultural Holdings Act, 1960, as far (upto July 1, 1967) are as below :

55,353 acres of land has vested in the State upto July 1, 1966. Since then 8,470 acres more land had been declared surplus upto May 1967 which was to vest in the State on July 1, 1967. Out of 55,352 acres vested land, 7,550 acres had been allotted and 5,441 acres had been leased out temporarily for one year. All the holders whose land vests in the State were paid compensation. An amount of Rs. 18,94,354 was determined as compensation on 31,852 acres vested land and Rs. 2,92,390 have already been paid.

ELECTRICITY

Madhya Pradesh in its Fourth Five Year Plan proposes to spend some Rs. 6,000 lakhs to install 55MW of generating capacity, to erect about 617 Kms. of new E.H.T. transmission lines and to electrify 75,000 irrigation pumps.

A brief description of the continuing schemes of the Third Plan and new schemes of the Fourth Plan is given as under.

* Production figures include production of non-reporting area for the respective year.

† Figures are for 1964-65.

Korba Thermal Station

The Second Plan witnessed the erection and commissioning of 90,000 kW power station at Korba to which a 10,000 kW unit was added in July 1963. In the Third Plan, 200 MW extension scheme was taken in hand, with Russian aid. All the four units, each of 50 MW, have been commissioned.

Satpura Thermal Station

Satpura Thermal Station, will have an installed capacity of 312.5 MW. Of the five units each of 62.5 MW, four units have gone in operation and the fifth is expected to be commissioned by the end of the current financial year.

Amarkantak (Birsinghpur) Thermal Station

Provided in the Second Plan and completed and commissioned during the Third Plan period, along with its associated transmission lines, this 60 MW (2 × 30 MW) station awaits further expansion upto 115 MW during the Fourth Plan, with one additional unit of 55 MW. each.

Chambal Hydel Projects

Madhya Pradesh and Rajasthan are equal partners in harnessing the power potentials of Chambal. Massive as the project is, it will have an installed capacity of nearly 400 MW, besides providing water for irrigation to a vast area on both sides of the river. It is being implemented in three stages.

Stage I—Gandhisagar Hydel Station

Under Stage I, a power station at Gandhisagar Dam in M.P. has been completed. The station has an installed capacity of 115 MW (5 × 23 MW).

Stage II—Ranapratap Sagar

This will be the largest power station of the Chambal basin with an installed capacity of 172 MW (4 × 43 MW). Taken in hand during the Third Five-Year Plan period, three of its four units of 43 MW each have been commissioned and the remaining one is expected to become operative soon.

Stage III—Jawahar Sagar

This scheme when completed will yield 99 MW of power (3 sets of 33 MW each). Work on it was initiated during the Third Plan period and is expected to become operative in 1970-71.

Transmission Grid

3,537 kilometers of main transmission line have been completed and energised. Another 248 kms. are under erection, all being spillover of the Third Plan; important among them are—Amarkantak-Morwa, and Damoh-Bijawar both of 132 KV.

The Fourth Plan will further strengthen this system by another 617 Kms. Some important lines proposed for implementation during the Fourth Plan period are Gwalior-Pichhore Ujjain-Ratlam-Nagda and Bhilai-Balaghat-Seoni 132 KV (225 Kms.). Fourth Plan proposals also include providing second circuit on some 615 Kms. of E.H.T. lines.

The sub-transmission system of 11/33 KV lines is 14,000 Km. long. Another 5,000 Kms. are proposed to be added to it during the 4th Plan.

Rural Electrification and Lift Irrigation Schemes

Rural electrification and power irrigation (lift irrigation) schemes are closely linked in the State. Of the 2,109 electrified places in the State (upto Dec. end 1968) 217 are towns.

75,000 pumps are proposed for electrification during the 4th Plan.

Particulars	End of First Plan	End of Second Plan	End of Third Plan	1967-68 end.	Fourth Plan Target
Installed capacity in MW	81.6	206	287.5	531	825
E.H.T. Transmission lines (over 66 kV)	175	1,137	2,594	3,505	4,527
Yearly generation in (M. kWh)	98.7	403.5	1,143.3	1,770.9	4,350
No. of consumers in thousands	51.3	121.5	275.9	360.2	600.0
Per capita consumption (kWh)	6.15	14	30	40	85.5
No. of towns/villages electrified	142	538	1,311	1,832	10,838
Number of Irrigation Consumers	265	1,822	7,309	16,935	105,000

EDUCATION

The figures relate to 1967-68 :

Total No. of Degree Colleges : 176 (Govt. colleges 68, Private 108).

Total No. of Teachers Training Colleges : 120 (106 B.T. Institutions, 11 Govt. Colleges of Education, 3 non-P.G.B.T. Colleges).

Total No. of Professional Colleges : 28.

(Medical 6, Engineering 9, Agriculture 6, Veterinary 3, Ayurvedic 3).

Polytechnics : 24 (14 Govt., 10 non-Govt.).

Number of Universities : 9.

PUBLIC HEALTH

Figures for 1967-68 :

Common diseases in the State : Malaria, Filariasis, Tuberculosis, Venereal diseases, Dysentery, Diarrhoea, Gastroenteritis and Leprosy.

Total No. of patients treated in the State during 1967 : 3,38,243 (Indoor) ; 1,11,41,896 (Outdoor).

T.B. Patients treated during 1967 : 1,04,806.

Number of Medical Institutions and beds at the end of the year 1967 :

Number of Hospitals & Dispensaries	..	527
Number of beds	..	14,635
Number of Medical Colleges	..	6
No. of allopathic hospitals	..	148
No. of Primary Health Centres	..	415
		(457 sanctioned)
No. of T.B. Hospitals & T.B. Sanatoria	..	8
No. of Leprosy Homes	..	13
No. of Mental Hospitals	..	2

Other Services :

No. of T.B. clinics	..	27
No. of Leprosy clinics	..	191
No. of Leprosy Control units	..	6
No. of Leprosy S. E. T. Centres	..	40
No. of M. C. W. Centres	..	151
No. of Dental clinics	..	15
No. of Family Planning clinics	..	521

LABOUR

Position as on 31st Dec. 1967 :

Number of registered factories (including 22 defence factories) : 2,289.

Number of workers employed in registered factories : 1,77,822 (excluding 21 defence factories).

Important industries with the number of units (employing more than 100 workers), and workers employed respectively in each industry within brackets :

Processes allied to Agriculture 30 (4,080); Sugar 7 (3,872); Rice 6 (614); Oil (including Hydrogenerated Oil) 8 (1,466); Flour 1 (117); Bakery 1 (725); Dal 1 (100); Beverages 4 (570); Tobacco 20 (2,873); Textile (Cotton, Jute, Silk, Woollen, Carpet weaving etc., Mills) 30 (46,993); Wood and Cork except furniture 5 (1,663); Paper and Paper Products 8 (3,916); Printing, Publishing and Allied Industries 6 (1,462); Rubber Products 1 (196); Chemical and Chemical Products 9 (2,781), Potteries 7 (2,390), Cement 4 (4,221); Asbestos 1 (12,073); Non-Metallic Mineral Products (Bricks and Tiles, Stone dressing and Crushing and others) 17 (2,063); Basic Metal Industries (Iron and Steel, Rolling into Basic Forms and Rough Casting) 29 (15,458); Metal Products (except Machinery and Transport Equipment) 4 (950); Machinery (except electrical Machinery) 13 (3,988); Electrical Machinery, Appliances, Apparatus and supplies 6 (12,928); Transport Equipment 17 (2,457); Electricity Gas and Steam 9 (3,180); Starch 1 (250).

On December 31, 1966, the number of registered trade unions was 541 (excluding cancelled unions) out of which 320 unions had submitted their returns for the period January to December 1966. After scrutiny 202 returns had been accepted by the Registrar of Trade Unions, membership of which came to 37,540.

Total number of employments covered under the Minimum Wages Act : 13 (1967).

Approximate number of workers employed in the above employments : 4,01,562 (1967).

Important categories of employments under the Minimum Wages Act and the approximate number of workers employed in each category :

Rice, flour and dal mill 10,807; Tobacco (including Bidi making) manufacturing 2,41,825; Oil mill 4,790; Local authority 29,302; Construction or maintenance of roads or in building operation 24,148; Stone breaking or in stone crushing 2,978; Public motor transport 13,843; Shops and Commercial Establishments 65,637; Saw Mills 3,595; Cotton, ginning and pressing 2,600; Printing Press 2,307.

The Madhya Pradesh Shops & Establishments Act, 1958 was in force in 57 towns and four local areas in the State on December 31, 1967.

There were 1,04,008 registered establishments out of which 7,704 were found closed and 96,304 live establishments left at the end of 1967.

Provident Fund Scheme (December 1967)—

Number of factories covered by the Employees' Provident Fund Scheme (December 1967)—1,217. Number of factories exempted—36. Number of factories partially exempted 6, total number of workers contributing under the Scheme—2,30,703.

Number of family units (one family unit assumed to be comprised of three adults and one minor) covered by the Employees' State Insurance Scheme (December 1967)—99,942. The Scheme was in operation in Banmore, Bhopal, Burhanpur, Dewas, Gwalior, Indore, Jabalpur, Mandsaur, Nagda, Raigarh, Raipur, Rajnandgaon, Ratlam, Satna and Ujjain.

SOME IMPORTANT IRRIGATION SCHEMES

Name of Project	Location District	When started	When to be completed	Capacity M. Cft.	Area proposed for irrigation (Acres)	Total cost (Rs. lakhs)	Estimated rise in output after completion (Tons)	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Tawa	Hoshangabad	1962	1975-76 (Probable)	74,010	7,50,000	3,414.00	1,87,500	
Barna	Raisen	1960-61	N.A.	14,510	1,64,160	700.00	41,040	
Hasdeo Barrage ..	Bilaspur	1961	1967	2,144	—	900.00	—	
Nahlesara	Balaghat	1957	1968	621.8	11,150	214.20	2,788	
Chandrakeshar ..	Dewas	1958	1971	1,006.13	12,000	163.07	3,000	
Bilanadi	Sagar	1956	1972	1,907.00	32,000	235.57	8,000	
Chillar	Shajapur	1960	1969	1,098.92	13,000	118.36	3,250	
<i>Projects in Operation</i>								
Sampna	Betul	1954	1969	528.37	5,427	104.42*	1,350	
Remodelling Mahanadi Canals	Raipur	1957	1969	Weir work	1,40,000	276.68	35,000	* Includes cost of repairs and strengthening.
Borad Development								
Satak	West Nimar	1956	1969	584.58	14,500	105.25	2,375	
Segwal								
Chambal	Bhind, Morena & Mandsaur	1954	1961 (Stage I)	2,44,400	7,00,000*	3,694.00 (Stage I)	1,75,000	* Power : 80,000 kW.
Saroda	Durg	1953	1968	1,065	18,168	166.73	4,542	
(Development)								
Dudhawa	Bastar	1955	1968	10,019	—*	267.49	—	* Feeder tank to Mahanadi Canal.

UNIVERSITIES

Indira Kala Sangeet Vishwavidyalaya

Khairagarh

Founded 1956.

Chancellor : K. C. Reddy, B.A., B.L., LL.D., Governor, Madhya Pradesh.

Rector : U. Mishra ; *Treasurer* : K. D. Ballal, Collector (Durg) ; *Registrar* : D. K. Ghosh.

It is a teaching, affiliating, examining and residential University of Music and Fine Arts.

Number of affiliated Colleges : 18.

Number of students in the University : 1,887.

BUDGET ESTIMATES: 1967-68

Total Income Rs. 1,18,717.

Total Expenditure Rs. 1,44,905.

The media of instruction for all classes are Marathi, Urdu, Hindi and English.

From the examination of December, 1968, private candidates are admitted to University examination.

Indore University

Indore.

Estd: 1964. It began as an affiliating University, but is intended to develop as a federal University with teaching departments. The first of such teaching departments — Education — came into existence on the 15th November 1965 with the opening of the University College of Education.

Chancellor : K. C. Reddy, B.A., B.L., LL.D., Governor of M.P. ; *Vice-Chancellor* : K. L. Joshi, M.A. (London) ; *Registrar* : G. N. Tandan, M.A.

No. of affiliated colleges : 21.

University Teaching Depts. : 1.

No. of students in the University : 16,908.

BUDGET (1967-68)

Receipts : Rs. 18,44,050.

Expenditure : Rs. 32,96,374.

DEVELOPMENT BUDGET

Receipts : Rs. 8,63,400.

Expenditure : Rs. 8,63,400.

Jabalpur University

Jabalpur.

Estd: 1957. It is a teaching and affiliating University.

Chancellor : K. C. Reddy, B.A., B.L., LL.D., Governor of Madhya Pradesh ; *Vice-Chancellor*, Dr. Raj Bali Pandey, M.A., D.Litt. ; *Registrar* : S. C. Seth, M.A.

Number of affiliated colleges : 15 ; Number of constituent colleges 7 ; Number of University Departments of Post-Graduate Studies and Research 13 ; Number of students in the Colleges and University Departments 15,727.

NORMAL BUDGET (1968-69)

	Rs.
Receipts	32,89,740
Expenditure	35,77,710
Govt. of India Special Grant (U.G.C.) ..	6,000
State Government Maintenance Grant	4,93,000

DEVELOPMENT BUDGET (1968-69)

	Rs.
Receipts	11,79,560
Expenditure	17,61,810
State Government and U. G. C. ..	11,79,560
Contribution from General Funds ..	5,82,250

Jawaharlal Nehru Krishi Vishwa Vidyalyaya

Jabalpur.

Estd. 1964.

Chancellor : K. C. Reddy, Governor, Madhya Pradesh ; *Vice-Chancellor* : Dr. L. S. Negi ; *Registrar* : R. K. Dube, M.A.

BUDGET (1968-69)

Receipts : Rs. 187.61 lakhs.

Expenditure : Rs. 178.83 lakhs.

(On revenue and capital expenditure only.)

Jiwaji University

Gwalior.

Established in 1964, it is a teaching, affiliating and residential University.

Chancellor : K. C. Reddy, Governor, Madhya Pradesh ; *Vice-Chancellor* : S. S. Bhandarkar, M.A. ; *Registrar* : A. K. Bhattacharya.

No. of affiliated colleges : 37 (as on 30-6-68).

No. of constituent colleges : 8 (as on 30-6-68).

BUDGET (1968-69)

Receipts : Rs. 52,62,000.

Expenditure : Rs. 52,36,200.

Ravishankar University

Raipur.

Chancellor : K. C. Reddy, Governor, Madhya Pradesh ; *Vice-Chancellor* : Dr. B. L. Pandey, M.A., LL.B. (Allahabad), I.A.S. (Retd.) ; *Registrar* : K. P. Chaube, M.A.

Constituent Colleges : 10.

Affiliated Colleges : 35.

Students (1966-67) : 16,750.

BUDGET ESTIMATES (1967-68)

Actual Income : Rs. 34,38,524.45.

Actual Expenditure : Rs. 33,90,651.10.

Grant from State Govt. : Rs. 2,00,000.00.

Grants from State Govt. for development : Rs. 1,50,000.00.

Saugar University

Chancellor : Rajmata Smt. Vijaya Raje Scindia ; *Pro-Chancellor* : Minister for Education, Madhya Pradesh ; *Vice-Chancellor* : Prof. M. P. Sharma, M.A., D.Litt. ; *Rector* : Prof. Ishwar Chandra ; *Registrar* : S. J. Naidu, B.A., LL.B. (I.A.S., Retd.).

It is a teaching and affiliating University.

Number of affiliated colleges : 44.

Number of students : Teaching Departments : 3,062 ; Affiliated Colleges : 20,877.

Library : 1,19,632 (includes volumes, journals and pamphlets).

BUDGET (1967-68)

Income : Rs. 88,16,425.

State Govt. Grant : Rs. 13,50,000.

U. G. C. Grant : Rs. 15,35,415.

Vikram University

(Ujjain)

Founded: 1957.

It is an affiliating and teaching University. The media of instruction are English and Hindi.

Chancellor : K. C. Reddy, B.A., B.L., LL.D., Governor of Madhya Pradesh ; *Vice-Chancellor* : Dr. Shiv Mangal Singh 'Suman' ; *Registrar* : V. Shankaran, M.A.

Number of University Schools of Studies : 12.

Number of Constituent Colleges : 28.

Number of Affiliated Colleges : 20.

University Teaching Department : 1.

Number of Students (1967-68) : 40,593 (Regd.).

Total Income including Govt. Grants : Rs. 58,69,245.

Total Expenditure : Rs. 57,56,382.

MAHARASHTRA

Capital : Bombay.

Area : 306,345 Sq. Kilometers ; **Population** : 39.55 millions (1961 census).

It is the third biggest State in the Union both in respect of area and population.

The strength of the Maharashtra Assembly is 270, of the Council 78. The State sends 19 members to the Rajya Sabha and 47 to the Lok Sabha.

DISTRICTS

(For the names, area and population, see under article "Population").

The State is divided into 26 Districts. There are 231 Talukas and Mahals and 223 municipal towns.

The Districts with their headquarters in brackets are :—

Dhulia (Dhulia), Nasik (Nasik), Thana (Thana), Greater Bombay (Bombay), Kolaba (Alibag), Ratnagiri (Ratna-

giri), Ahmednagar (Ahmednagar), Poona (Poona), Satara (Satara), Sangli (Sangli), Kolhapur (Kolhapur), Sholapur (Sholapur), Jalgaon (Jalgaon), Aurangabad (Aurangabad), Parbhani (Parbhani), Bhir (Bhir), Osmanabad (Osmanabad), Nanded (Nanded), Buldhana (Buldhana), Akola (Akola), Amravati (Amravati), Yeotmal (Yeotmal), Wardha (Wardha), Nagpur (Nagpur), Chanda (Chanda), Bhandara (Bhandara).

These 26 Districts are grouped into four Divisions.

Bombay Division : Greater Bombay, Thana, Kolaba, Nasik, Dhulia, Jalgaon, Ratnagiri.

Poona Division : Ahmednagar, Poona, Satara, Sangli, Kolhapur, Sholapur.

Aurangabad Division : Aurangabad, Parbhani, Bhir, Osmanabad, Nanded.

Nagpur Division : Buldhana, Akola, Amravati, Yeotmal, Wardha, Nagpur, Bhandara, Chanda.

BASIC FACTS AND FIGURES

Income during 1964-65 (in crores of rupees): 2,231 (100.0). Agriculture and allied activities 880 (39.4); Mining, manufacturing, small enterprises and construction 595 (26.7); others 756 (33.9). Per capita income Rs. 524. Figures in brackets show percentages to the total income.

LAND UTILIZATION

Classification of land and area in '00 hectares for 1965-66 respectively are :

Total Geographical Area 307,672; Area under Forests 54,193; Net Area Sown 181,221; Gross Cropped Area 189,754; Barren & Uncultivable Land 17,984; Land put to non-agricultural use 6,863; Culturable waste 8,551; Land under miscellaneous tree crops 1,698; Permanent pastures 14,042; Current fallows 11,654; Area sown more than once 8,533; Other fallows 11,467.

Area and Out-turn Under Different Crops

Crop wise area in '000 hectares and out-turn in '000 tonnes respectively under cultivation during 1966-67 are :

Rice 1,337; 1,057; Wheat 876; 367; Jowar 6,131; 3,097; Bajra 1,727; 404; *Total cereals* : 10,651; 5,217; *Total Pulses* : 2,146; 716; Sugarcane 161; 1,114; Cotton (Lint) 2,611; 196; Groundnut 1,058; 470; Tobacco 15; 8.

(In '00 Hectares)

Area irrigated by crops during 1964-65 : Rice 2,870; Wheat 1,590; Jowar 3,120; Sugarcane 1,590; Cotton 650; Groundnut 160; Bajra 314¹; Other cereals 144¹; (Total

cereals 7,876¹; Gram 350¹; Tur 34¹; Other pulses 53¹; (Total pulses 437¹; Total Foodgrains 8,314¹); Sugarcane 1,369¹ (Total Food crops 11,637¹); Tobacco 136¹; (Total non-food crops 1,501¹); Total all crops 13,137¹.

Area Irrigated by Sources ('00 hectares), 1965-66 †: Govt. canals 255; tanks 191; wells 725; other sources 65; net irrigated 1,236; gross irrigated 1,425.

Agricultural Machinery & Implements (1966): Wooden ploughs 1,764,772; Carts 1,457,874; Sugarcane Crushers 17,490; Oil Engines with Pumps for Irrigation purposes 146,126; Electric Pumps for Irrigation 37,741; Tractors 3,260; Ghanis 3,756.

Livestock 1966 :

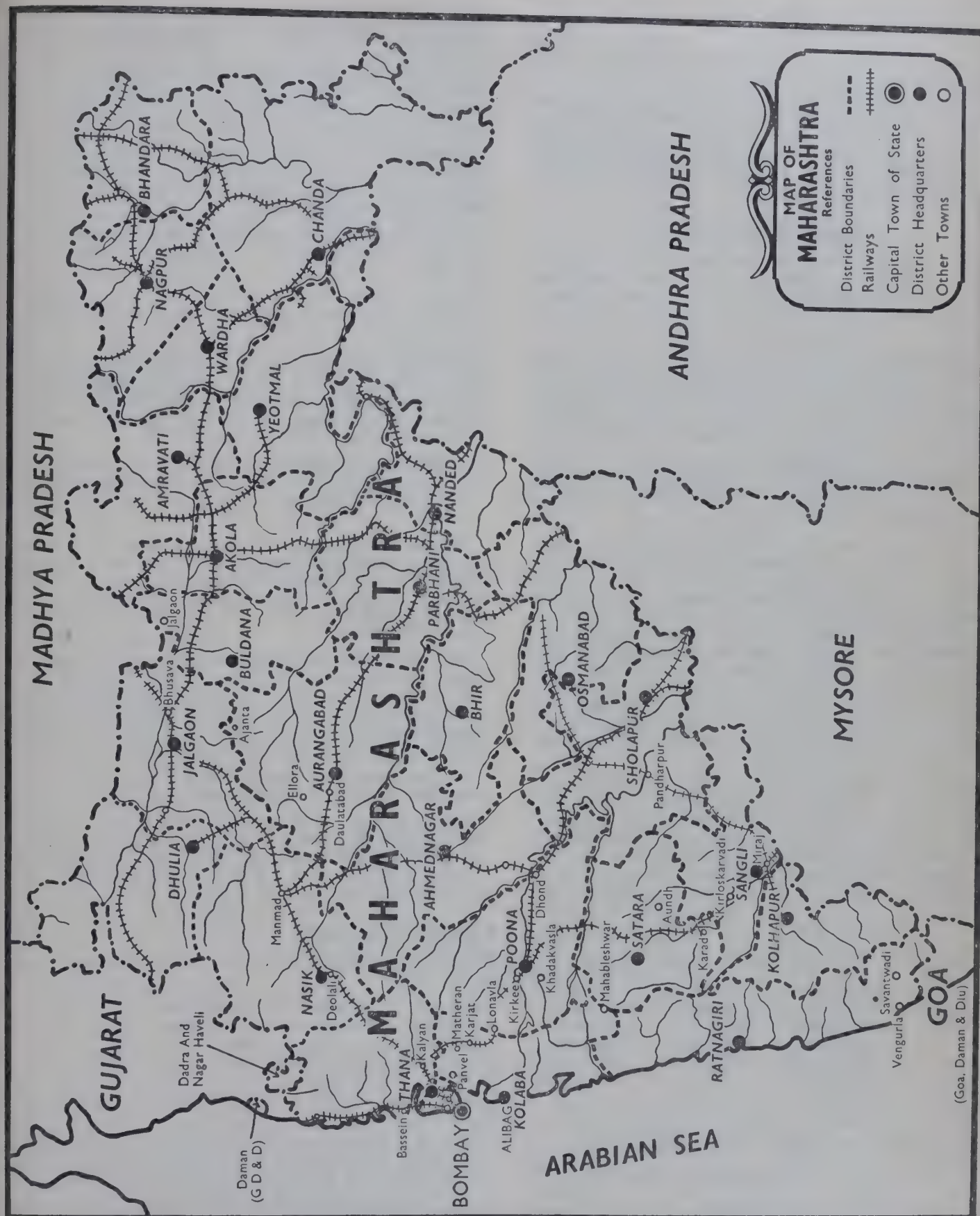
Total cattle : 14,680,619; Total buffaloes 3,029,656; Sheep 2,200,450; Goats 5,104,462; Horses & ponies 100,666; Pigs 181,009; Camels 1,935; Total livestock 25,365,927; Poultry 9,887,497.

Cooperation : Number of societies, number of members ('000) and working capital (Rs. lakhs) respectively as in 1966-67.

Agricultural and non-agricultural credit apex and central 29; 70; 32,862; Agricultural 20,784; 3,561; 20,658; Non-Agricultural 2,379; 2,117; 9,784; Marketing 426; 234; 2,533; Productive enterprises 6,687; 697; 9,565; Others 8,008; 825; 5,640; Total number of all types of cooperative societies, total number of members and total working capital (Rs. lakhs) respectively : 38,313; 7,504; 81,042.

¹ Indicates figures for 1963-64.

† The figures are tentative.



Various types of banking offices at the beginning of 1967 :

Scheduled banks 886 ; Non-Scheduled banks 9 ; Co-operative banks 906 ; Total banking offices 1,801.

Education (1966-67)@ : No. of Institutions and pupils respectively under each category is as follows:—Pre-Primary 512 ; 34,125 ; Primary 42,901 ; 5,778,776 ; Secondary 4,260 ; 1,614,349 ; Higher 345 ; 208,663 ; Teachers' Training 259 ; 27,436 ; Vocational & Special 49,034 ; 7,737,448 ; Institutions for Adult education 204,026 ; 954,921.

TECHNICAL EDUCATION§

Engineering Colleges 7 ; Other degree colleges 1 ; Autonomous governing bodies 6 ; Polytechnics 24 ; Other diploma institutions 15 ; Industrial training institutes and centres 42 ; Technical high schools 89 ; others 417 ; Total 601.

Electricity : (Figures in million kilowatt hours) as in 1966-67. *Output :* Steam 2,493, Oil 76, Hydro 3,832 ; *Consumption :* Domestic light and small power 467, Commercial light and small power 392, Industrial power 3,408, Public lighting 36, Traction 434, Irrigation and dewatering 66, Water works 33.

Community Development Programme :—Coverage as on 31-3-1967 : No. of blocks of CPA pattern 450½ ; No. of villages covered — including 37 non-Municipal urban areas 38,904 ; Population covered 2,87,06,000.

Achievements during 1966-67 and progressive achievements upto 31-3-1967 respectively. Figures within brackets indicate units: Distribution of fertilisers ('000 tonnes) 195 ; 1,322 ; Distribution of improved seeds ('000 tonnes) 26 ; 210 ; Animals castrated ('000 No.) 237 ; 1,975 ; Pedigree Bulls supplied (No.) 980 ; 9,509 ; Area reclaimed and bunded ('000 Hectares) 606 ; 2,650 ; Additional area irrigated ('000 Hectares) 63 ; 591 ; Drinking water wells constructed (No.) 2,475 ; 22,010 ; Adults made literate ('000 No.) 522 ; 2,602 ; Katcha roads constructed (Kilometres) 2,716 ; 23,314 ; People's contribution ('000 Rs.) 3,726 ; 122,477 ; Government Expenditure ('000 Rs.) 45,423 ; 611,910.

Medical :—(Figures as on 1-4-1967) : Number of State Government hospitals and dispensaries in the State : 112 ; Number of beds 17,583 ; Municipal Hospitals and dispensaries 1,001 ; Number of beds 6,701 Private aided and non-aided 268 ; Number of beds 11,961.

Transport and Communications : Figures as on 1st Jan. 1968* : Number of motor cycles 43,294 ; Motor cars

87,751 ; Taxi cabs 11,052 ; Auto-Rickshaws 1,344 ; Stage carriages (Diesel engined 5,689 ; Petrol engined 502) ; Lorries : Public carriers (Diesel engined 16,144 ; Petrol engined 12,451) ; Private carriers (Diesel engined 4,966 ; Petrol engined 7,530) ; Ambulances 331 ; School buses 410 ; Private Service vehicles 487 ; Trailers 5,044 ; Tractors 4,986 ; Others 443 ; Total number of vehicles 2,02,424.

Roads : (b) in Kilometres (Figures as on 31st March 1967): Total 54,116 ; National highways 2,362 ; State highways 10,983 ; Major district roads and other district roads 21,806 ; Village roads 18,965.

A road styled Bombay-Goa Road connecting Goa with Bombay, under construction, is expected to be completed by 1970.

Railway kilometrage : Total 5,162 kms. (Broad Gauge 2,752 kms. ; Metre Gauge 1,308 kms. ; Narrow Gauge 1,102 kms.).

Nationalised Road Transport (c) (Figures as in March 1968) : No. of routes 4,009 ; route distance in km. 2,39,074 ; average no. of vehicles on road per day 3,764 ; average daily earning Rs. 11,25,161 ; average no. of passengers who travelled per day 11,74,771.

Employment Exchange Statistics : (d) (Figures for 1967-68) : Registrations 418,597 ; Vacancies notified 76,566 ; Placements 39,004 ; Those on the live register 290,499.

Village Panchayats : The total income of Village Panchayats in 1966-67 was Rs. 14.32 crores as against Rs. 15.26 crores in 1965-66. The Government grants contributed about 48 per cent of the total revenue. The total expenditure of Village Panchayats in 1966-67 was about Rs. 13.11 crores.

The receipts of the Zilla Parishads (1967-68 budget estimates) amounted to Rs. 64.7 crores of which 91 per cent (Rs. 58.8 crores) were Government grants. The purposive grants and the Plan grants including block grants formed the major share e.g. 51.4 per cent and 19.3 per cent respectively of the total Government grants.

As against the total revenue receipts of Rs. 64.7 crores, the total revenue expenditure was Rs. 66.2 crores.

Small Savings : In small savings Maharashtra enjoyed the premier position in India till 1964. The total net Collections during 1966-67 was Rs. 20.73 crores as compared to the Collection of Rs. 23.51 crores in 1965-66. Thus the collection declined by 8.4 per cent.

Working Class Consumer Price Index Numbers(e)

Statement showing the Consumer Price Index Numbers for Working Class, for the year 1966 and 1967, for 7 Selected Centres of the Maharashtra State.

Year	Bombay year ended June 1960 = 100	Sholapur year ended January 1960 = 100	Nagpur year ended August 1960 = 100	Jalgaon year ended August 1961 = 100	Nanded year ended July 1961 = 100	Aurangabad year ended July 1961 = 100	Poona 1961 = 100
1966 ..	143	145	144	155	153	151	139
1967 ..	158	162	160	173	174	176	151

All India Index Number of Wholesale Prices

(See page 162).

ECONOMY

Rice is abundantly grown in the Coastal Districts of Thana, Kolaba, Ratnagiri and also in Chanda and Bhan-

dara. It accounts for one-fifth of the foodgrains grown in the State. Wheat accounts for a little more than one-twentieth. Millets are grown abundantly in the Deccan, Vidarbha and Marathwada districts. Jowar is the major cereal and accounts for half the production.

The production of cotton in 1965-66 was 1,74,000 metric tons and groundnut 4,50,000 metric tons in Maharashtra.

@ Source : Director of Education, Poona.

§ Source : Director of Technical Education, Bombay.

* Provisional.
Corporation.

(b) Source : Buildings & Communications Department, Sachivalaya.

(c) Source : Maharashtra State Road Transport

(d) Source : Director of Employment, Bombay.

(e) Commissioner of Labour, Bombay.

The production of cotton and groundnut was 8,47,000 metric tons and 40,22,000 metric tons respectively in the country.

The State has abundant forest wealth. Forests form 20·7 per cent of the area of the State. There are forest areas in all districts, but the thickest forest areas are, in Chanda, Amravati, Yeotmal, Bhandara, Nagpur, Dhulia, Thana and Nasik Districts. They produce various types of timber, teak and minor forest produce.

In the matter of live-stock, the milk-yielding buffalo population is greater than the cattle only in Kolhapur and Greater Bombay. The sheep and goat abound in all Districts but are particularly noticeable in Nasik, Dhulia, Ahmednagar and Sholapur. The concentration of horses and ponies is greater in Marathwada, Dhulia and Ahmednagar.

The more important industries are cotton textiles, general and electrical engineering, chemicals, petroleum, transport and transport equipment, sugar, vegetable oils, paper, paper boards and soap. In 1966 there were 9,043 working factories in the State providing employment to about 8,79,000 workers. Out of the registered factories, about 49 per cent factories are in the Greater Bombay area.

Out of the Rs. 866 crores of productive capital in Maharashtra in 1963, the textile industry alone accounts for 16 per cent. It is apparent that Greater Bombay alone contributes 69 per cent of productive capital.

ELECTRIC POWER DEVELOPMENT

Today all places with a population of 50,000 and over are electrified. Power generation and consumption in Greater Bombay are high.

The allocation for Irrigation and Power during 1966-67 was Rs. 46·02 crores or about 38·2 per cent of the total Annual Plan of Rs. 120·46 crores.

The total installed capacity as on 31st March 1965 was 1,224 MW; output of electricity 4,439 million KWH and consumption 3,569 million KWH. The per capita power generated and consumed was 112 KWH and 90 KWH respectively as compared with 66 KWH and 52 KWH in the Indian Union as a whole.

The power requirements of the State have been assessed at 2,288 MW at the end of the Fourth Five Year Plan. To meet this demand, the State's Fourth Five Year Plan includes projects, hydro and thermal, of a total capacity of 1,580 MW. This together with 190 MW accruing from the Nuclear Power Station, is expected to meet the anticipated demand of 2,288 MW in 1970-71 in full and also leave some surplus to meet unforeseen demands, if any, during the Fourth Plan period.

Maharashtra has a hydro potential of over 3,000 MW mainly concentrated in or around the Western Ghats.

Projects in progress : Of the hydro power projects in progress, two more generators of 75 MW each of the Koyna Project were recently commissioned. The Purna Project in Marathwada is nearing completion. The extension of the State Electricity Board's Khaperkheda Steam station by 60 MW was completed towards the end of 1964. The extension of the Paras Steam station by 60 MW more and establishment of a new steam station of 60 MW at Bhusaval are in an advanced stage of construction. In the private sector, an additional capacity of 150 MW was commissioned by Tatas in their steam power station at Trombay.

New Projects : Three more steam stations, of a total capacity of 900 MW, are to be constructed by the State

Jt. Stock Companies (March 1964) : No. of Jt. Stock Companies limited by shares : 5,173 ; Paid-up capital : Rs. 632 crores.

No. of new Jt. Stock Companies incorporated & registered with Authorised capital (Rs. in lakhs) respectively : 1964-65 : 267 ; 10,558 ; 1965-66 : 284 ; 4,446 ; 1966-67 : 227 ; 3,169.

Mineral Production (1967) : The Quantity being in '000 tonnes & value in Rs. '000 respectively :

1967 : Chromite 0·2 ; 23 ; Coal 1,337 ; 38,572 ; Iron ore 194 ; 3,101 ; Limestone 111 ; 568 ; Manganese ore 331 ; 33,059 ; Chinaclay 2 ; 16 ; Bauxite 24 ; 257 ; Salt 529 ; .. ; Dolomite 9 ; 64 ; Gypsum 0·09 ; 1 ; Quartz & silica 14 ; 101 ; Ochre 0·7 ; 8.

Source : Indian Bureau of Mines, Nagpur.

Vidarbha region of Maharashtra is outstandingly rich in mineral wealth. Nagpur and Bhandara districts of Vidarbha region possess some of the largest deposits of manganese ore in India. Salt is produced in the Coastal districts. The only Coal bearing area, having extensive reserves of first grade and medium grade Coal is found around Kamptee, Umrer and Bokhara in Nagpur district and Warora in Chanda district. Large deposits of iron ore are found in Ratnagiri and Chanda districts. Limestone is at present mined only in Nagpur and Yeotmal districts.

Electricity Board during the Fourth Five Year Plan period. One of these, of 280 MW, will be constructed near Nasik the Western Maharashtra, the second of 60 MW in Parli-Vajinath in Marathwada and the third, a super-station of 560 MW, near Nagpur in Vidarbha. Though of the Fourth Plan programme, advance action in respect of these projects had been initiated in the Third Plan itself.

Transmission Lines : The total length of transmission lines was expected to be around 1,750 circuit kms. at the end of the Third Five Year Plan and additional lines of a total length of 2,414 circuit kms. are proposed to be constructed during the Fourth Plan period.

Rural Electrification : In rural electrification, the accent is on electrification of villages which are within easy reach of grid lines and which offer sufficient load, particularly load for agriculture and small industries. There are 35,851 towns and villages in the State. Of these as many as 7,377 villages had been electrified by 31st March 1969. Agricultural pumps supplied with electricity aggregated 90,002. A target of supplying electricity to 10,000 more villages and 1,00,000 agricultural pumps has been fixed for the Fourth Five Year Plan.

MAHARASHTRA STATE ELECTRICITY BOARD (1967-68)

Total installed capacity :	786,473 KW
Steam :	235,000 KW
Hydro :	545,824 KW
Diesel :	5,649 KW

Number of towns and villages and agricultural pumps supplied with electricity :

		Villages	Pumps
Western Maharashtra	.. ..	3,344	45,094
Vidarbha	.. ..	2,662	28,901
Marathwada	.. ..	1,371	16,007
Total (State)	.. ..	7,377	90,002
Total length of Transmission lines 11KV and above (Circuit kms)			33,533·5

Total number of consumers	702,999
Total electricity production (Miln. KWH)	3,715·967
Total electricity purchased (Miln. KWH)	348·510
Electricity received from Eldari Power Station (Miln. KWH) ..	10·420
Total sales (Miln. KWH)	3,429·766
Total expenditure on Electricity Schemes (Rs. crores)	36·72
Capital assets on 31st March 1968 (Rs. crores)	162·66
Gross Revenue (Rs. crores)	29·8234
Working expenditure for the year end- ing 31st March 1968 (Rs. crores) ..	21·7674

POWER PROJECTS IN OPERATION

The following statement shows particulars of the Board's power projects in operation as on March 31, 1968:

Bombay-Koyna System : Intended mainly to serve the Western Maharashtra region, this system comprises three hydro power stations, viz., the Koyna, Radhanagari and Bhatgar. The first one is interconnected with the power stations of Messrs. Tata's of Bhira, Khopoli, Bhivpuri & Trombay & the Chola Power Station of Central Railway. For its schemes in the Bombay-Poona and Igatpuri-Manmad areas the Board continued to purchase bulk power from Tatas. The supply for Igatpuri-Manmad area is sent out over the transmission lines of Central Railway from their Chola Power Station to Igatpuri and from there to Igatpuri-Manmad area over the Board's lines, for distribution to its consumers. Board also continued to supply Electricity to Goa from its Koyna-Radhanagari interconnected system in Western Maharashtra. In addition there is one Diesel Power Station in Nasik.

Capacity of Power Stations: Koyna 540,000 KW; Radhanagari 4,800 KW; Bhatgar 1,024 KW; Diesel Station 5,339 KW; Units generated in 1967-68: 2,865·910 miln. KWH; Units purchased 348·510 miln. KWH; Units sold 279,92,45,205 KWH; No. of consumers served 4,48,641; Length of transmission lines 16,970·5 circuit KMS.

Vidarbha Grid System : This system is served by three inter-connected steam power stations—Khaperkheda (120,000 KWH), Ballarshah (22,500 KW) and Paras (92,500 KW). There are also three small diesel power stations of a total capacity of 310 KW at Aheri and Sironcha in Chandrapur District and Dharni in Amravati District. Units generated in 1967-68 : 847·203 million KWH; units sold—57,81,90,300 million KWH; number of consumers served—1,73,563; length of transmission lines—10,530 circuit KMS.

Marathwada :

Aurangabad, Bhir, Parbhani and Nanded Districts of Marathwada area are served by the Vidarbha Grid system and the Osmanabad District is served with power from the Koyna-Tata-Interconnected Grid system of Western Maharashtra. The Eldari Power Station of the Purna Hydro Electric project was commissioned by the Irrigation and Power Department of the State Government and power generated to the extent of 10·42 million KWH was received in this interconnected system by the Board for distribution in this area. Units sold 5,23,31,247 KWH; Number of consumers served 80,795; Length of transmission lines 6,033 circuit KMS.

CHOLA, KOYNA

Central Railway's Power House at Chola has a total installed capacity of 136,000 KW and supplies electric power for the requirements of Central and Western Railways' electrified lines in Bombay. This power house is interconnected with the Tata-Koyna system.

The second scheme is Koyna, it is the biggest scheme in Maharashtra.

The Koyna Hydro-Electric Project comprises three Stages. Stage-I of the project is completed and the four generating sets of 60 MW capacity each under stage I have been commissioned and handed over to the State Electricity Board for operation and maintenance from 1st April 1963. Stage-I of the project costs Rs. 38·28 crores.

Stage II of the Project which is estimated to cost Rs. 18·16 crores provides for installation of four additional generating units of 75 MW capacity each and laying of 220 KV Transmission lines to Bombay. All the four generating units under Stage II have already been commissioned and handed over to the Maharashtra State Electricity Board for operation and maintenance. All the work under Stage II of the Project except laying of Transmission lines to Bombay is practically completed. The work on the transmission lines is also at an advanced stage of construction.

An expenditure of about Rs. 54·85 crores has been incurred on Stages I and II of the Project till the end of September 1968.

Stage III of the project contemplates further generation of power on the tail-race waters of Stages I & II by constructing a system of balancing reservoirs, Head-race and tail-race tunnel pressure shafts and an underground power house. The Project envisages installation of four generators of 80 MW capacity each for generation of 320 MW of 20 per cent load factor. This station is envisaged to run as a peaking station to meet the demand of power at its peak. The work on this Project is in full swing. An expenditure of Rs. 6·94 crores has been incurred on Stage III of the Project till the end of Sept. '68.

TATA PROJECTS

The hydro-electric undertakings in the State are the three schemes developed and brought into operation by Tata Sons, Ltd., and continued under their management until 1929, when they were transferred to the management of the Tata Hydro-Electric Agencies, Ltd., in which Messrs. Tata Sons retain a majority interest. These undertakings are :—

- The Tata Hydro-Electric Power Supply Company, Ltd. Supply started in 1915.
- The Andhra Valley Power Supply Company, Ltd. Supply started in 1922.
- The Tata Power Supply Company, Ltd. started in 1927.

The three Hydro-Electric Companies are interconnected with Chola Steam Station of the Central Railway and the newly commissioned Koyna Hydro generating station of Maharashtra State which feeds bulk power to the Tata system at Trombay and Kalwa over 220 kV transmission lines. Together they are operated as a Hydro-Thermal system under the co-ordinated control of the Hydro Companies.

The three Hydro Companies have constructed a modern Steam Thermal Station of 338 MW capacity at Trombay which is also interconnected to the system.

The Tata Hydro-Electric System serves an area in Maharashtra State of more than 2,072 sq. kilometres.

Electric service is rendered to the textile mills and other industries of Bombay and the suburban areas, to local authorities, and, in bulk for retail distribution, to the electrical undertakings including the State Electricity Board, supplying Greater Bombay and ten other localities within the area.

The transmission network of the Tata system consists of 1,029 circuit kilometres of 1,00,000-volt overhead lines and 33 circuit kilometres of 100 KV gas filled underground cables and the distribution network of 386 circuit kilometres of 22,000-volt overhead as well as 238 circuit kilometres of 22,000-volt and 193 circuit kilometres of 6,600-volt underground cables. There are also 44 circuit kilometres of 6,600-volt overhead lines.

Substantial additions to the transmission and distribution network are expected to be made during the next few years.

During 1967-68 the peak demand on the Tata Rly. System reached a figure of 780 MW and that on the Tata-Railway-Koyna system was 955 MW.

The sales by Tatas during 1967-68 was 4,236 million units and the purchase from Koyna to supplement Hydro system during the year was 1,825 million units.

NOTE : Because of security reasons, we have been asked not to publish any information relating to location of electricity generating plants.

HOUSING

Housing schemes are coordinated by the Urban Development, Public Health and Housing Department of the Government. The actual building work and ancillary functions are discharged by the Housing Boards. Finance comes partly from the Government of India.

There are two Boards now, the Maharashtra Housing Board for the western Maharashtra and Marathwada areas and the Vidarbha Housing Board for Vidarbha.

Subsidised Industrial Housing Scheme : This scheme is meant for industrial workers whose income does not exceed Rs. 350 per month. The scheme is executed through the Maharashtra Housing Board and Vidarbha Housing Board, Employers and Co-operative Societies of Industrial workers. The Housing Boards are provided with 100 per cent financial assistance. The financial assistance is given to the employers at the rate of 50 per cent loan and 25 per cent subsidy and to the Co-operative Societies at the rate of 65 per cent loan and 25 per cent subsidy. In addition, employers can also give their 25 per cent share of contribution to the Housing Boards for construction of tenements for their employees. The rents charged are subsidised rents as fixed by the Government of India. The total number of tenements completed, agency-wise till March 31, 1968 is as follows : Maharashtra Housing Board 26,465 ; Vidarbha Housing Board 3,704 ; Employers 5,049 ; Co-operative Housing Societies 462 ; Total 35,680.

Slum Clearance Scheme : This scheme provides for construction of tenements and provision of plots for slum dwellers whose income does not exceed Rs. 250 per month. The scheme is executed through the agency of local bodies and the Maharashtra Housing Board. The rents charged are subsidised rents as fixed by the Government of India. The total number of tenements constructed by the various agencies till the end of March 1968 is as follows : Maharashtra Housing Board 13,434 ; Bombay Municipal Corporation 4,315 ; Poona Municipal Corporation 734 ; Nagpur Municipal Corporation 332 (plots) ; Nagpur Improvement Trust 50 tenements and 650 (plots) ; Dhulia Municipality 85 ; Total 18,608 tenements and 982 plots.

Low Income Group Housing Scheme : This scheme is meant for persons whose total annual income does not exceed Rs. 7,200. The scheme is in operation in the municipal areas of the State. Loans equal to 80 per cent of the cost of construction subject to a maximum of Rs. 12,500 per tenement are granted under the scheme to individuals, institutions, local bodies etc. The total number of tenements completed through the various agencies till the end of March 1968 is as follows : Maharashtra Housing Board 8,035 ; Vidarbha Housing Board 243 ; Individual 500 ; Local Bodies 1,565 ; Co-operative Societies 3,293 ; Institutions 85 ; Total 13,721.

Economically Weaker Sections Scheme : This scheme provides for construction of tenements for persons whose monthly income does not exceed Rs. 350 per month. The scheme is executed through the agencies of the Vidarbha Housing Board and the Maharashtra Housing Board, which are given 100 per cent financial assistance. Under the integrated Subsidised Housing Scheme for industrial workers and economically weaker sections the subsidy portion of central assistance has been raised to 50 per cent from 25 per cent and the rents to be charged would be subsidised rents as fixed by the Government of India. This is applicable only to projects sanctioned after the 1st of April 1966. The total number of tenements constructed by the various agencies till the end of March 1968 is as follows : Maharashtra Housing Board 790, Vidarbha Housing Board 80.

Sweepers Housing Scheme : This is meant for providing residential houses to the sweeper employees of the various local bodies in the State. The scheme is now executed through the agency of local bodies and recognised social service agencies, which are given financial assistance by way of 50 per cent loan and 50 per cent subsidy based on the approved cost. The total number of tenements constructed under the scheme till the end of March 1968, is 287.

Middle Income Group Housing Scheme : This scheme is meant for persons whose monthly income is between Rs. 601 and Rs. 1,250. The scheme is implemented through the Maharashtra Housing Board and Vidarbha Housing Board. Funds required by the Boards are made available to them from the loans drawn from the Life Insurance Corporation of India by the Government. The tenements constructed are given on rental and hire-purchase basis. The total number of tenements constructed till the end of March 1968 by the two Boards is 1,776.

Land Acquisition and Development Scheme : The scheme is executed through the agencies of the Maharashtra Housing Board, the Vidarbha Housing Board and the Nagpur Improvement Trust, which are given financial assistance to the extent of 100 per cent. The Maharashtra Housing Board has been allowed to constitute "Revolving Fund" out of the amount of Rs. 110 lakhs given to it under the Scheme. Since 1962-63, assistance for this scheme is given to the two agencies from the loans drawn by the Government from the Life Insurance Corporation of India. The area acquired and notified for acquisition respectively in acre till the end of March 1968 by the three agencies is given below : Maharashtra Housing Board 782 ; 2,023 ; Nagpur Improvement Trust 91.82 ; nil ; Vidarbha Housing Board 34.75 ; nil.

The Maharashtra Housing Board has also undertaken the reclamation of 117 acres of creek-land at Mahim causeway near Bandra in Bombay.

ROAD TRANSPORT

The position of Maharashtra State Transport for 1966-67 is given below: No. of passengers carried (in lakhs): 3,727.59; Capital invested (Rs. in lakhs): 3016.68. Total gross revenue (Rs. in lakhs): 3,140.74; Total revenue expenditure (Rs. in lakhs): 3,133.89.

The operational data of Maharashtra State Road Transport Corporation as of March 1967:

No. of passenger vehicles: 4,181; No. of goods vehicles: 70; No. of routes operated: 3,591; Route kilometres: 2,16,298; Major workshops: One central, 13 divisional and 92 depots; No. of persons employed: 28,906; No. of nationalised city services: 21; No. of Municipalised city bus services: four; Rate per passenger for 6.4 kilometres (4 miles): 20 P.; Total bus kilometres operated: 2,589.61 lakhs; No. of bus stations (permanent and temporary): 243; No. of refreshment rooms: 529; No. of cloak-rooms: 84; Pick-up stands 670.

At the end of 1967-68 there were 4,005 routes operating in the State as against 3,591 at the end of 1966-67. The aggregate route distance at the end of 1967-68 was 2.38 lakh kilometres as against 2.16 lakh kilometres at the end of the earlier year. The average number of passengers travelled per day increased to 10.91 lakhs during 1967-68 from 10.21 lakhs during 1966-67. The average daily earnings of the Corporation increased to Rs. 10.25 lakhs in 1967-68 from 8.26 lakhs during the year 1966-67.

MILK SCHEME—1968

Staff employed: Govt. Regular 4,810; Part-time 3,360; daily rated 2,000.

Area of Govt. Land: 4,466.64 hectares (Aarey 1,282.35 hec.; Palghar 1,318.74 hec.; Dabchhari Milk project 1,654.66 hec.; Worli Dairy 7.89 hec.; cultivated under irrigated fodders at Aarey for para-grass 203.00 hec.).

Daily quantity of milk procured: Aarey 108,332 litres; Kaira District Milk Producers' Union, Anand (Gujarat State) 62,219 litres; Co-operative Societies (Greater Bombay) 13,527 litres; Mofussil Schemes 138,437 litres.

Distribution of Milk (per day in litres):

	Type				
Whole Milk	289,571
Toned Milk	56,258
Double Toned Milk to Municipal Schools	33,018
Cow Milk	671

Number of distribution centres: Part-time centres: 1,617; Full-time centres: 18; Mobile milk-bar: 1; Total number of consumers taking milk from scheme: Families: 280,000; Hospitals and Institutions (bulk Supply): 506.

Sale price of milk per litre: Whole Milk Rs. 1.70; Cow Milk Rs. 1.70; Toned Milk Re. 0.90.

Daily average sale of milk products: Cheese 21.690 Kgs.; Butter 27 packets of 100 gram; Ice-cream 25 cups of 4 oz.; Ghee 83.445 kgs. (Butter and ice-cream are prepared at the students dairy, Aarey for training the students of Dairy Science Institute).

Transport: Milk distribution vehicles 195; Milk procurement vehicles 59; Staff Vehicles 49; Vehicles for other work 51.

Consumption of Electricity (Weekly): 35,000 units (Aarey); 86,240 units (Worli).

† Information for Vidarbha & Marathwada region is not available.

Consumption of Fuel Furnace Oil (Weekly): 20,000 litres (Aarey); 42,000 litres (Worli).

Bottles replaced (Weekly): (500 ml.) 14,000 (Aarey); 21,000 (Worli) (200 ml.) 2,800 (Aarey); 4,200 (Worli).

Detergents (Weekly): 2,297 kgs. (Aarey); 5,000 kgs. (Worli).

The Aarey Milk Colony

Started functioning 13th March 1949; Investments by Govt. Rs. 40 million; by Cattle owners in Cattle Rs. 30 million.

Number of licensee cattle owners 215; Number of Dairy Farm units 30.

Number of animals at Aarey: Buffaloes (milch) 16,077; dry 225; bulls 144; young stock 3,000; Stock in Young Stock Farm of Govt. 358. Cows (milch) 16 (with licensees), 189 with Govt.; dry 94; bulls 4; young stock 172; Stock in Young Stock Farm of Govt. 152.

Number of animals in districts undergoing salvage: Buffaloes 15,108; at Palghar, 1,450 buffaloes and 157 cows.

Average daily milk production per milch animal at Aarey: Buffalo's 6.90 litres; Cow's 4.2 litres.

Total daily tonnage of feed and fodder: Cattle feed 80.24; hay and fodder 112.34.

Pasteurisation capacity per hour 18,000 litres.

Bottling capacity per hour 40,000 bottles.

Number of containers in circulation: Distribution cans 199, bottles daily 3,22,346; crates 20,000.

Water consumption daily: 4,50,000 gallons.

The Worli Dairy

Started: Nov. 7, 1961; Investment on land, buildings etc.: Rs. 1,09,68,000; Value of machinery purchased by State Govt. Rs. 38,75,000; Value of machinery supplied by UNICEF Rs. 75,16,000.

Pasteurising Capacity: 40,000 litres per hour; *Bottling capacity:* 50,000 bottles per hour.

Number of containers in circulation: Distribution cans 282; bottles daily 5,82,532; crates 28,957.

Water consumption daily: 6,00,000 gallons.

Dapchhari Milk Project

Govt. Investments (estimated): Rs. 50.14 million.

Number of animals (a) milch cattle with family of farmers 10,000; with licensees 10,000; with research centre 1,000; (b) dry cattle 10,000; (c) young stock 10,000.

The project will be completed in another five years and will supply milk to the extent of 1,25,000 litres per day.

LABOUR†

Particulars about labour in Maharashtra State are given below:

Total number of registered factories as on Dec. 31, 1966: 10,119.

Number of Works Committees functioning as on 31st Dec. 1967: 286.

Average daily number of workers employed in factories as on Dec. 31, 1966: 8,79,341.

Number of towns covered as on Jan. 1, 1968 by the Bombay Shops & Establishments Act, 1948: 123.

Number of industries covered by the Bombay Industrial Relations Act, 1946 as on Dec. 31, 1967: 10 industries in Western Maharashtra. Bombay Industrial Relations Act is also made applicable to all industries in Vidarbha area except saw mills and ten other industries such as generations and supply of electrical energy, paper & paper products, building and road construction, Dairy and dairy

Products, Rice, Flour or dal mills, industries carried on by Municipal Council etc. and to Cotton Textile and Sugar Industries in Marathwada Area.

Trade Unions (December 31, 1967): Number of workers covered by the Bombay Industrial Relations Act, 1946 in Western Maharashtra: 3,55,249; Number of registered trade unions: 2,523; Total membership of registered trade unions: 12,05,645*; Number of regd. trade unions affiliated to I.N.T.U.C.: 122*; Membership of unions affiliated to I.N.T.U.C.: 90,163*; Number of regd. trade unions affiliated to A.I.T.U.C.: 63; Membership of Unions affiliated to A.I.T.U.C.: 41,729; Number of regd. trade unions affiliated to H.M.S.: 61*; Membership of unions affiliated to H.M.S. 1,98,866.

Industrial Disputes in 1967: No. of strikes 672; No. of workers directly involved 2,50,665; No. of workers indirectly involved 4,125; No. of man-days lost 39,476.

The Maharashtra Labour Welfare Board

Jambori Maidan, Worli, Bombay 18 (W.B.)

The number of welfare centres under the control of the Maharashtra Labour Welfare Board are 76. In addition, there are eight sub-centres carrying out activities on a restricted scale. Activities of these centres include recreation through entertainment, games and sports, health programme through first aid and health education, community and social education, subsidiary occupations and handicraft for women, nursery schools and scouts and guides for children, creches for toddlers, Tailoring Classes, etc.

Along with the programme of mass recreation, health and education, there has also been an emphasis on skilled recreation with an educative bias.

Attendance for 76 welfare centres and eight sub-centres in the State during 1967-68 was 4,30,19,229 with a regular membership of 1,77,477.

OFFICIAL LANGUAGE

Maharashtra Official Language Act, 1964 has been passed in the State Legislature and Directorate of Languages has nearly finalised the initial preparations like training of typists and stenographers, preparing administrative lexicon and other help books, etc. needed for the change-over from English to Marathi.

DECENTRALISATION OF ADMINISTRATION

In the State all villages have been brought within the fold of Panchayati Raj. Out of the total number of 38,851 villages, 38,259 villages have been covered by establishment of 22,117 Gram Panchayats. In addition 3,480 Nyaya Panchayats had been notified. Elections to these Nyaya Panchayats have taken place.

EMPLOYEES STATE INSURANCE SCHEME

The number of workers covered in Maharashtra Region centre-wise as on 31st March 1968, is: Greater Bombay 709,150, Poona including Chinchwad and Pimpri 46,600, Sholapur (including Sangli) 27,250, Kolhapur 9,000, Nagpur including Akola, Hinganghat and Nanded 36,500. There are 2 Hospitals viz. Mahatma Gandhi Memorial and Werli in Bombay with 892 general and 120 TB beds commissioned in those hospitals respectively. The number of beds in Maharashtra including reserved beds is 1,780. There are 17 Diagnostic Centres, 15 Ambulance Units, 1 Mobile Dispensary and 22 State Insurance Dispensaries in Maharashtra. There are in all 1,897 Panel Doctors including 612 Ayurvedic and five Unani Practitioners. For making cash payment to the insured persons 44 Local Offices and 31 Pay Offices have been set up.

* Figures are as on Dec. 31, 1966.

IRRIGATION

The total area irrigated through all irrigational sources in Maharashtra State in 1965-66 was 12,298 hundred hectares (net) and 14,140 hundred hectares (gross).

Below are given particulars about projects in operation.

Bhatghar Dam and Nira Canals:—At Bhatghar, Poona Dt., completed in 1938, irrigates 1,55,582 acres in Poona, Sholapur and Satara Dist. The cost of the scheme is Rs. 7.20 crores.

Bhandardara Dam and Pravara Canals System:—At Bhandardara in Ahmednagar Dist., completed in 1926, irrigates 65,912 acres in Ahmednagar. Cost 1.62 crores

Darna Dam and Godavari Canals System:—At Darna in Nasik Dist., completed in 1916, irrigates 69,117 acres in Ahmednagar and Nasik Dist. Cost Rs. 3.51 crores.

Chankapur Tank and Girna Canals:—At Chankapur in Dist. Nasik, completed in 1910, irrigates 10,348 acres in Nasik. Cost Rs. 21 lakhs.

Gangapur Dam:—At Gangapur in Nasik Dist. Stage I, physically completed in 1957, would irrigate 21,500 acres in Nasik and 20,000 acres in Ahmednagar Dist. Cost Rs. 3.95 crores. Stage II is completed during the current year. It would irrigate 19,000 acres in Nasik. Cost Rs. 111.55 lakhs. An expenditure of Rs. 5.23 crores has been incurred till March 1966 on Gangapur Stage I and II.

MAJOR AND MEDIUM PROJECTS

In the Third Plan, in all 27 new major and medium irrigation projects were included in addition to the 49 spill over schemes, for a total outlay of Rs. 69.06 crores which included flood protection works, extension and improvement, survey and investigation of major and medium irrigation projects etc. Against this provision expenditure of the order of Rs. 65.83 crores has been incurred during the Third Plan period. Out of the schemes which were under execution in the Third Plan, as many as 46 were physically completed and have started yielding benefits.

MINOR AND MEDIUM PROJECTS

The Third Five Year Plan expenditure for both State and Local Sector was Rs. 10.95 crores against a Plan allocation of Rs. 1,361.75 lakhs. Out of the schemes which were under execution in the Third Plan, in all 68 schemes were completed in the State Sector creating an additional irrigation potential of approximately 1,08,000 acres.

During the subsequent three annual Plans expenditure incurred and irrigation potential achieved are as under:—

Annual Plan Year	Expenditure			
	Major and Medium Project Rs. in lakhs	Potential (Additional) '000 acres	Minor Irrigation Works (S.S.) (Irrigating more than 250 acres) (Rs. in lakhs)	Potential (Additional) '000 acres
1966-67 ..	1,432.69	96.35	384.39	14
1967-68 ..	1,304.55	56.79	375.72	21
1968-69 ..	1,956.28	187.59 (Estimated)	525.76	34 (Anticipated)

PARTICULARS ABOUT SOME OF THE VERY IMPORTANT PROJECTS UNDER CONSTRUCTION

Project	Location	Area to be irrigated '000 acres	Districts benefited	Estimated cost Rs. in lakhs	Amount spent upto 31-3-69 Rs. in lakhs
Warna ..	.. Khujgaon, Shirale, Satara Dt.	244.77	Kolhapur and Sangli	3,164.00	51.19
Upper Penganga	.. Isapur Village, Pusad Taluka, Yeotmal Dt.	275.52	Nanded and Parbhani	3,506.00	3.00
Bhima ..	.. (1) Phagne, Mawal, Poona Dt. } (2) Ujjani, Sholapur }	427.20	Poona	4,258.00	386.23
Yayakwadi ..	.. Near Paithan, Aurangabad Dt.	350.00	Aurangabad and Parbhani	5,878.12 (anticipated)	777.72
Krishna ..	.. Talavai, Satara Dt.	262.64	Sangli and Satara	2,765.64	31.17

INDUSTRIES

Engineering :—In the field of engineering industry, there have been several notable developments particularly in the Bombay region. Some of these are machine tools like lathes, shaping machines, pillar drills, power hammers, metal cutting saws, steel and malleable iron castings, welding electrodes, electrical stampings, link chains, melting crucibles, umbrella ribs, steel furniture, safes and cash boxes, steel balls and copper roller engraving for textile industry.

Another feature is the beginning made in the manufacture of modern appliances like typewriters, refrigerators, wireless receiving sets, wooden and plastic cabinets and household electrical gadgets. Manufacture of modern equipment for agricultural plant protection, pressure stoves and lamps, stainless steel-pressed wares and equipment, industrial machinery for textile and chemical industries and fabrication of heavy structurals like transmission tower and pipe line, cranes, etc. has also developed in recent years.

The engineering industries located at Kirloskarwadi, Poona and Satara are known for their agricultural implements, engines and other products. There are about 84 units in the Poona division itself, manufacturing diesel engines, oil-engines, sugar-mill machinery, jeep trailers and tractors, non-ferrous utensils, agricultural implements, power looms, etc. In electrical engineering, the manufacture of electrical motors, transformers, cables for transmission and switch gears is worthy of mention.

Sugar :—Maharashtra is one of the major sugar-producing States in the country, having 35 sugar factories with a crushing capacity of 49,400 tonnes per day. They are located in the districts of Ahmednagar (13), Kolhapur (6), Poona (4), Satara (3), Sholapur (3), Nasik (3), Sangli (1), Osmanabad (1) and Aurangabad (1).

One of the important features of this industry is that 24 are in the cooperative sector. Letters of intent have been granted to three sugar mills in co-operative sector to be established two in Sangli and one in Satara districts.

Industrial Alcohol :—Allied to the sugar industry is the industrial alcohol industry, which can be developed from the molasses available from sugar factories. Out of about 152.4 million litres of alcohol made in the country, 33.47 million litres are made in the 8 distilleries located in the State. Proposals for setting up three new distilleries aggregating a total capacity of 13.5 lakh litres have been approved.

Chemicals :—The chemical industry in Maharashtra has made galloping progress.

Bombay and Thana are the main centres of dyestuffs industry manufacturing a wide range of products. Ceramic and glass, gases, oils and soaps, paints, pigments and varnishes, food products, rubber goods and other chemical industries also follow the same pattern.

The Automobile Industry :—Bombay is progressively undertaking the manufacture of cars, utility vehicles and scooters in three large assembly plants. The ancillary industry manufacturing component parts is also steadily developing under the patronage of the automobile industry. The annual licensed capacity for cars is 3,500. Scooters and three wheelers 28,000, others (Jeeps, trucks and tractors) 42,540. The Bicycle Industry is also making headway, having an annual licensed capacity of 2,30,000 bicycles.

Paper Mills :—The paper industry has been delicensed in the State. During 1967 according to factory Act there were three pulp mills, 18 paper mills and 18 paper board mills.

Oil Mills :—Groundnut being one of the important cash crops in Nagpur and Aurangabad divisions, there are several oil mills located in these regions. During 1968 in Aurangabad division itself there were 65 oil mills. In Nagpur division, there are about 65 oil mills. In Poona region the number of oil mills is 64. In Bombay region the highest number of oil mills is in Jalgaon, followed by Bombay city and Dhulia. The total number of oil mills in Bombay Division is 140. In addition most of the ginning and pressing factories in the cotton growing tracts which grow groundnuts also have oil mills for off season working.

Ginning and pressing is an important processing industry serving the cotton growing areas. There were 467 such factories all over the State during 1967 a large number of them, having been located in Nagpur division. A little over 85 ginning and pressing units are spread over the entire cotton-producing area in Aurangabad division. In Bombay division out of 114 ginning and pressing factories 24 are located in Dhulia district and 56 in Jalgaon district while there are 52 such factories in Poona division. Nagpur division is having 216 factories.

Petrochemical Industry :—The organic chemical industry in India has so far been based upon the fermentation of alcohol, acetylene from calcium carbide and benzene and allied products from coal-tar. With the setting

up of petroleum refineries in the country, there is scope for utilising petroleum naphtha for production of intermediates required for the organic chemical industry. One petro-chemical complex with a total capacity of 45,220 tonnes has come up near Bombay in the Trans-Thana-Creek area. In this complex several organic products such as ethylene oxide, diacetone alcohol, P.V.C. etc., will be produced with petroleum naphtha as the starting material.

Textiles:—During 1967 the total spindle and loom capacity of the state was 26·7 per cent and 22·2 per cent respectively. The total number of mills in the State was 95 (18 spinning and 77 composite) with a capacity of 45,49,427 spindles and 7,835 looms. Of these mills 59 mills are in Bombay city and 36 are in rest of the State.

In addition, there are also 1·6 lakh looms in the hand-loom sector. The total number of workers engaged in textile industry is 2,31,781 of which 182,565 are engaged in Bombay city and 49,216 in rest of Maharashtra.

Maharashtra occupies an important place in the field of growing of cotton in the country. Of the total production in the country, about 25 per cent is produced in the State, amounting to 14 lakhs of bales. The quality of cotton is mostly short and medium staple. Recently growth of long staple cotton has picked up in certain irrigated tracts in the district of Ahmednagar.

The following figures show the industry-wise productive capital, output and value added respectively for the year 1965 in Maharashtra State (Figures in lakh rupees): Textiles 16,422, 41,363, 11,983; Food industries (except beverages, sugar factories and refineries) 3,195, 17,816, 1,762; General and electrical engineering 12,473, 18,968, 5,982; Petroleum 6,236, 4,641, 995; Transport and transport equipment 8,035, 11,630, 3,508; Sugar factories and refineries 5,115, 5,787, 1,161; Rubber products 1,591, 3,311, 947; Basic industrial chemicals, paints, varnishes, lacquers and miscellaneous chemical products 18,655, 25,350, 7,915; Other industries 39,648, 42,191, 11,946; All industries 1,11,370, 1,71,057, 46,199.

During 1966, the total no. of working factories was 9,042 with an average daily employment of 8,79,301 workers.

Details about strikes, workers involved, and man-days lost for 1966 (actual) and 1967 (provisional) respectively are: 1966 (781; 5,14,391; 35,41,947); 1967 (710; 2,49,740; 22,05,481).

AGRICULTURE

The crop-wise area for the years 1964-65 and 1965-66 respectively are (Fig. in '000 hectares): Rice 1,365, 1,272; Wheat 910, 905; Jowar 6,037, 6,038; Bajri 1,676, 1,576; Groundnut 1,071, 1,053; Sugarcane 144, 161; Cotton (Lint) 2,822, 2,663. The following figures are for 1963-64 and 1964-65: Total cereals 10,556, 10,444; Total Pulses 2,381, 2,333; Tobacco 18, 17; Ragi 225, 222; Maize 28, 29; Barley 5, 4; Tur 566, 581; Gram 376, 367; Potatoes 15, 15; Chillies 168, 174; Sesamum 126, 125; Castor seed 4, 4; Rape, Mustard, Linseed 213, 211.

Area in '000 hectares for 1966-67: Rice 13,46; Wheat 9,17; Jowar 61,53; Bajri 17,22; Tur 5,20; Gram 3,46; Sugarcane 1,54; Cotton 26,00; Groundnut 10,50.

Statement showing the area under certain groups of the crops (figures in '00 hectares) as in 1963-64: Fruits & Vegetables 1,623; Condiments & Spices 2,066; Oil Seeds 18,880; Drugs & Narcotics 208; Fodder Crops 9,257; Total non-food crops 57,286.

Sugarcane is grown in all the districts except the Konkan districts, the major cane growing districts being Ahmednagar, Kolhapur, Poona, Nasik, Satara, Sangli, Sholapur, Osmanabad and Aurangabad. These nine districts have

about 1·25 lakh hectares under sugarcane yielding 10·54 lakh M. tonnes of sugarcane (in terms of gur) in 1963-64. Estimated production of sugarcane in 1963-64 was 11·01 lakh tonnes.

The Marathwada districts have nearly 6·40 lakh hectares under oilseeds, the corresponding figures for Vidarbha districts being 3·51 lakh hectares. The western Maharashtra including Jalgaon has about 8·77 lakh hectares under oilseeds.

As regards cotton, the area and production in Marathwada, Vidarbha and Western region including Jalgaon is as follows: Marathwada: 7·45 lakh hectares, 0·50 lakh tonnes; Vidarbha: 15·50 lakh hectares and 1·35 lakh tonnes; Western region: 5·07 lakh hectares and 0·69 lakh tonnes.

Although the Konkan districts are lean in the production of food crops, they excel in horticultural wealth. Ratnagiri district had 10,592 acres under mangoes in 1963-64. Similarly, the district has 10,246 acres under cashewnut. Thana district is the home of bananas, with an acreage of 2,576. Nagpur oranges are well-known. They are grown in Nagpur, Amravati and Wardha Districts, which have about 28,000 acres under them. In Jalgaon district also the area under bananas is large viz. about 31,800 acres.

Rice is abundantly grown in the coastal districts of Thana, Kolaba, Ratnagiri and also in Chanda and Bhandara. It accounts for one sixth of the food grains grown in the state. Wheat accounts for a little more than one fifteenth. Millets are grown abundantly in the Deccan, Vidarbha and Marathwada districts. Jowar is the major cereals and accounts for half the production.

LAND REFORMS

For the purposes of tenancy reform, Maharashtra State falls into the following main categories:—

- (i) The former Bombay areas consisting of 13 districts which are governed by the Bombay Tenancy and Agricultural Lands Act, 1948;
- (ii) Vidarbha areas consisting of 4 districts of former Central Province and 4 Berar districts, governed by the Bombay Tenancy and Agricultural Lands (Vidarbha Region) Act, 1958;
- (iii) The Marathwada area consisting of 5 districts governed by the Hyderabad Tenancy and Agricultural Lands Act, 1950.

The main provisions of these laws are more or less similar and they can broadly be grouped under the following five topics:—

- (i) Security of tenure for tenants, (ii) Regulation of rent, (iii) Resumption for personal cultivation, (iv) Rights of ownership for tenants, (v) Land management.

Details about "Land Reforms" were given in the previous editions of the Directory.

The programme of consolidation of small and uneconomic holdings was completed in 3,184 villages by the end of the Third Plan, covering an area of nearly 54·43 lakh acres. In the Western Maharashtra about 6,82,376 tenants out of 16 lakh tenants have till March 1967 become owners of 14·45 lakh acres of land as a result of legislation for compulsory transfer of ownership from land lord to tenant.

MINERALS

The Maharashtra possesses many useful mineral deposits in the north-eastern and south western parts, the remaining areas being covered mostly by Deccan Traps. The rich deposits of iron ore, mostly confined to Ratnagiri and Chanda districts, large deposits of manganese ore, both of high and low grades, occurring in Vidarbha, particularly in Nagpur and Bhandara districts, extensive deposits of

bauxite especially in Kolhapur, Ratnagiri, Kolaba and Thana and good reserves of coal in Vidarbha constitute the main mineral wealth of Maharashtra.

In addition to these major minerals, there also occur other minerals like ilmenite, chromite, dolomite, tungsten ore, mica, silica, limestone, clay, etc.

Iron Ore :—Very rich deposits of iron ore are located in various parts of Maharashtra, particularly in Ratnagiri district and in Chanda district of Vidarbha region. The reserves of Ratnagiri are estimated to be of the order of 200 to 250 million tonnes with 25 million tonnes of 58 to 62 per cent iron in Redi area alone. Recently large deposits of iron ore have been discovered at Surjagarh, Wadvi and from other localities in Sironcha tehsil, Chanda district.

Manganese :—The Vidarbha region has very large deposits of manganese ore, both of high and low grade. Most of the areas bearing high grade ore have already been leased out. For the present, almost the entire quantity of manganese ore produced is exported in raw condition. However, recently, two ferro-manganese plants which utilize a sizeable quantity of the ore have been set up one each in Nagpur and Bhandara districts. There is a heavy separation plant at Dongri Buzurg for beneficiating low grade ores.

In Bombay division also, the manganese ore appears to be occurring almost side by side with the three iron-ore belts running parallel in Ratnagiri district.

Bauxite :—Kolhapur district has rich deposits of bauxite. More than 34 million tonnes of bauxite exist in this zone. They occur at Udgiri, Dhangerwadi, Range-wadi, Radhanagari, Waki, Gargoti, Panhala, Ajra and Vishalgadh all in Kolhapur district.

In the Coastal region, bauxite occurs in Ratnagiri, Thana and Kolaba districts. The deposits of Ratnagiri lie in the up-ghat region at Amboli. The ore occurs at Tungar hills in Thana district and in the Borivli, Jogeshwari and Goregaon area. In Kolaba district, bauxite deposits of good quality have been reported at Dohane, Ambegaon and Wakalghar in Murud taluka and Wave and Shinona in the Shriwardhan taluka. The known total reserves of bauxite of all grades in the coastal districts are 12.8 million tonnes, out of which 5.9 million tonnes are of high grade. The high grade bauxite reserves in Satara district are 4.4 million tonnes and total all grade reserves are 7 million tonnes.

Coal :—Vidarbha is the only region in the whole of Maharashtra where coal is found. Coal occurs in four detached basins viz. Kamptee, Umrer and Bokhara in Nagpur district and Wardha Valley coal field in Chanda and Yeotmal districts. At present three mines, one each in Kamptee, Sillewara and Umrer in Nagpur district and six mines in Chanda district are working.

The estimated reserves of coal in Kamptee and Umrer are 700 and 70 million tonnes, respectively. The reserves of Wardha valley are Chanda—136 million tonnes, Ballarpur—2,000 million tonnes, Sasti-Rajura—100 million tonnes, Mazri—50 million tonnes, Warora—60 million tonnes, Gughus—Telwasa—1,500 million tonnes and Rajur (or Wun)—240 million tonnes.

In Nagpur district the estimated total reserves are placed at 387 million tonnes.

On the basis of proved deposits of coal at Umrer and Sillewara an open-cast mine of one million tons capacity is already in production at Umrer by the National Coal Development Corporation and production from Sillewara is also expected soon. The coal produced from both the areas would be consumed mostly by the Khaparkheda thermal power station.

The total coal reserves in the Vidarbha region are of the order of 5,000 million tonnes.

Limestone :—The Marathwada region has limited mineral resources, which consist chiefly of building stones, semi-precious stones, zeolites and material for lapidary industry. Limestone deposits have, however, been discovered south-west of Mohada in the Kinwat Taluka of Nanded district. The workable reserves are provisionally estimated at 0.71 million tonnes. The deposits are of poor quality.

Important deposits of limestone in Nagpur Division are located in Rajur, Mukutban, Sindola and Chanakha—Bhimkund in Yeotmal district and Warora and Rajura in Chanda district. As a result of investigations carried out by the State Directorate of Geology and Mining about 382 million tonnes of limestone has been found in different areas of Yeotmal district, out of which 336 million tonnes are of cement grade. The estimated reserves of Yeotmal District are of the order of 5,000 million tonnes.

In Poona Division, limestone has been located at Kallur, Nandur, and Khandarwadi in Ahmednagar district. Recent surveys reveal good deposits of limestone in the Miraj taluka of Sangli district.

Reserves in Ahmednagar and Sangli districts are estimated at 0.5 and 1.5 million tonnes respectively.

In Sangoda limestone belt, Rajma tehsil of Chanda Dt., a probable reserve of 450 million tonnes has been estimated by the State Dept. of Geology and mining.

Dolomite :—Extensive deposits of dolomite and dolomitic limestone occur in Yeotmal, Chanda and Nagpur districts of Vidarbha region. A reserve of 50 million tonnes of flux grade dolomite has been proved in Wani tehsil, Yeotmal district. The reserves of dolomitic marbles in Nagpur district are estimated at 186 million tonnes. The dolomite of Nagpur and Yeotmal districts is used as flux by the ferro-manganese plants situated in Kanhan and Tumsar.

The distribution of some other minerals is :—

Ilmenite :—Deposits of ilmenite sand (ilmenite content—70 to 76 per cent) occur sporadically along a 40 kilometre long coastal belt from Purnagarh to Malgund and beyond in Ratnagiri district. Probable reserves at some important localities like Rajwade, Bhatia, Ratnagiri, Purnagarh, Gaonkhedi and Malgund are 0.24 million tonnes. These are not worked at present.

Chromite :—Ratnagiri District (Kankavali, Vagda), estimates 71,000 tonnes, and Bhandara district (Pauni), estimates 487,000 tonnes.

Silica :—Ratnagiri District: estimated reserves over 50 million tonnes. The silica sand is useful for foundry and chemical industries like Sodium Silicate.

Clay :—Ratnagiri District (Talegaon, Malvan, Vengurla, Kudal, Sawantwadi); Thana District (Ghokhara Mouza near Bassein Road); Nagpur District (Bozargaon, Shemda, Khapri); Amravati District (Belkher, Kharaili, Pandhari); Chanda District (Kothari, Isapur, Ballarshah, Junona, Bhandak). Some leased for pottery works at Nagpur, Jabalpur and Chanda.

Kyanite, Sillimanite and Corundum :—These minerals occur at Pohara, Gobarwahi and other places in Bhandara District.

Tungsten :—Wolframite with occasional association of scheelite is reported from Agargaon in Nagpur District.

In 1967, the total value of mineral production in Maharashtra was Rs. 86.80 million as against Rs. 73.63 million in 1966. The State ranks seventh in mineral production in the country.

The table below gives production of various minerals during 1966 & 1967 and the value.

Minerals	1966		1967	
	Quantity (Tonnes)	Value (Rs. '000)	Quantity (Tonnes)	Value (Rs. '000)
Bauxite	8,985	107	24,114	257
China clay (saleable crude)	5,237	41	2,422	16
Chromite	1,564	139	237	23
Coal	1,226,000	32,209	1,337,000	38,572
Dolomite	7,199	64	9,060	64
Gypsum	165	4	92	1
Iron ore	222,198	3,707	193,801	3,101
Limestone	98,485	524	110,982	568
Manganese ore	340,089	28,432	330,603	33,059
Ochre	1,226	13	739	8
Quartz & Silica	17,499	132	13,934	101
Salt	47,200	8,261	528,500	11,029
Total value	1,975,847	73,633	2,551,484	86,799

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel).

GREATER BOMBAY

The area of Greater Bombay is 186 sq. miles and the population 4,152,056 (1961 Census).

The area of Bombay City is 26 sq. miles and the area of the Bombay Suburban District is 160 sq. miles. For population see under "Population".

The northern boundary runs from the north of Dahisar village in the west, in the centre between the milestones 21 and 22 on the Agra Road.

The municipal area of Greater Bombay described above is also the area covered by Bombay City and the Bombay Suburban District from the point of view of revenue division.

The Collector for Bombay City is also the Collector for the Bombay Suburban District. Bombay City Collectorate is directly under the Government and is governed in accordance with the provisions of the Maharashtra Land Revenue Code, 1966.

The Bombay Suburban District has besides the Collector, one Additional Collector, one District Deputy Collector, one Additional District Deputy Collector and three Mamlatdars one for each of the Talukas. Andheri (also called South Salsette) with headquarters in Andheri, Borivli with headquarters in Borivli and Kurla with headquarters at Mulund (with effect from Aug. 16, 1962). The headquarters of the Additional District Deputy Collector is at Andheri.

There are 35 Presidency Magistrates Courts out of which two are created for the trial of railway cases and one for the trial of children act cases. Besides there are 12 courts of Honorary Presidency Magistrates, 10 Police Divisions and 39 police stations in Gr. Bombay.

COMMERCE AND INDUSTRY

Commercially and industrially Bombay is the second, if not the first city in India. It is the principal centre of the cotton textile industry (56 cotton mills with 58,547 looms and 31,06,502 spindles). Its share in looms and spindles is 32.45 per cent and 24.06 per cent respectively of the total in the country. There are over 566 textile factories including silk, woollen and hosiery; over 986 engineering

undertakings; over 146 establishments manufacturing articles of food, drink and tobacco; over 256 establishments producing chemicals, etc.; 19 hides and skins processing concerns, and over 2,000 factories of a miscellaneous character.

The Reserve Bank of India, the central banking and currency authority has its Central Office in Bombay and 30 Indian Scheduled Commercial Banks operate in Bombay. Of the Indian Scheduled Commercial Banks four have their registered offices here. There are 14 foreign Scheduled Commercial Banks. Of these, eight have their principal offices located in Bombay.

Being the best natural harbour in India, the trade carried through Bombay is about 46 per cent of the total trade of India. The principal items of import are bricks, cement, sand, etc.; China clay; coal; cotton; glassware; grain; hardware; iron and steel; kerosene; fuel oil; motor vehicle parts; machinery; boilers and railway materials; oilman stores; oils; vegetables, etc.; paper; piece-goods; petrol; sugar; timber; twist and yarn; Government and naval and military stores.

The main exports are cola; cotton; flour; groundnuts; hemp; hides and skins; kerosene and fuel oils; manganese ore; myrobalans; oil-cake; piece-goods; seeds; spices; sugar; wool packages; twist and yarn; Government and naval and military stores.

The total returns to the Central Government from Greater Bombay in customs revenue for the year 1966-67 is about 43.72 per cent of the total revenue from the seaborne and airborne trade of India. The income-tax return to the Central Government from Greater Bombay is about 33.2 per cent of the total income from the country. The Corporation Tax amounts to about 49.5 per cent of the total collections in Gr. Bombay.

COMMUNICATIONS

From the communications point of view Bombay holds a unique position. There are numerous air routes connecting Bombay with the rest of the country, and it is also directly linked with foreign countries aurally. The head

offices of two chief railway systems, the Central and Western Railways are in Bombay which is rail linked with Calcutta, Delhi, Nagpur and Madras. It is the second biggest port and the chief sea communications centre of India. Greater Bombay's transport requirements are met by the local services of the two railways, Central and Western, besides the bus services of the municipalised Bombay Electric Supply and Transport Undertaking.

HOUSING

Statement showing the number of tenements constructed and completed by the Maharashtra Housing Board from April 1, 1947 to Dec. 31, 1967 in the Greater Bombay

area, under the respective groups : Old industrial housing scheme 2,608 ; scheme for B.S.O.R. 500 ; old low income group housing scheme 2,075 ; military hutments 1,575 ; subsidised industrial housing scheme 25,094 ; rehabilitation scheme 19,715 ; new low income group housing scheme 7,769 ; slum clearance scheme 13,461 ; housing scheme for dishoused persons 200 ; middle income group housing scheme 1,568 ; economically weaker section housing scheme 740 ; Deposit Contribution Scheme 200 ; Total 75,865 ; acquisition and development of lands 515 acres ; Juhu-Vile Parle development scheme 426 acres ; Total 941 acres ; Total expenditure incurred during the above period for the whole State Rs. 4,128.70 lakhs. (This is exclusive of Vidarbha region).

THE GREATER BOMBAY CORPORATION

To improve the tempo of civic amenities and to add substantially to the convenience of the public, the administration was divided ward-wise from 1964-65.

The municipal area of Greater Bombay is now divided into 17 administrative wards. These are A, B, C, D, E, F (North) ; F (South) ; G (North) ; G (South) ; H ; K ; L ; M ; N ; T ; P ; R.

For election purposes the municipal area of Greater Bombay is divided into 140 electoral wards—numbered 1 to 140.

The municipal government of Greater Bombay vests in the Municipal Corporation, composed of 131 representatives elected on adult franchise.

The Corporation has four statutory committees, the Standing Committee, the Improvements Committee, the Bombay Electric Supply and Transport Committee and the Education Committee.

The executive power in regard to general municipal administration vests in the Municipal Commissioner. The administration of the B.E.S.T. Undertaking, however, vests in the General Manager, B.E.S.T.

The Corporation is required to meet at least once a month. In actual practice it meets twice a week and oftener if necessary. Meetings of the Corporation are presided over by the Mayor who also convenes the meetings. The Mayor's term of office is one year and he is elected at the first meeting in April.

As per provisions of the Bombay Municipal Act relating to elections amended under provisions of Maharashtra Act No. VIII of 1965, the Municipal General Election was held early in 1968 on the basis of single member constituencies consisting of 140 wards. The term of the constitution was raised from 4 to 5 years.

The four most important officers of the Corporation are the Municipal Commissioner, the General Manager of the Undertaking, the Municipal Secretary and the Municipal Chief Auditor.

EDUCATION AND MEDICAL RELIEF

Primary education is free and compulsory in the Lower Primary standards of Municipal Schools all over Greater Bombay. It is the special responsibility of the Corporation.

But only about 88 children out of 100 receive an education.

From 1958 the benefit of free education was extended to the upper primary classes too.

There were 1,012 Municipal Schools and Classes conducted by the Education Committee and 554 Aided or Recognised Schools. The total number of pupils in all Primary Schools was about 6,33,964 out of whom 4,81,211 were in Municipal Schools and the rest in other Schools. The Corporation spent about Rs. 7,66,76,426 on primary and secondary and vocational education including office in 1966-67. Of this Government contributed Rs. 80,82,480. There was a net increase of 6,743 pupils in Municipal Schools during the year.

Education cess collected during 1966-67 was Rs. 94,45,061.

With the sanction of the State Government the Corporation has started 27 secondary schools. Instruction is imparted through Marathi, Gujarati, Urdu, Hindi and Kannada.

The Municipality maintains the Victoria and Albert Museum at Victoria Gardens and 22 libraries and free reading rooms.

Medical Relief : The Municipality runs one large hospital for infectious diseases (except tuberculosis, venereal disease and leprosy) at Sane Guruji Road and three other large general hospitals in the City proper (K.E.M. ; Nair and the Lokamanya Tilak Hospital, previously known as the Sion Hospital) and a group of hospitals for the treatment of tuberculosis at Sewri, an isolation centre at Dadar and four clinics and an ear, nose, throat hospital at Napier Road. Altogether 1,288 beds are reserved for T.B. patients. In the Suburbs there are four general hospitals and 1 T.B. Clinic and 400 beds reserved for T.B. patients. Medical treatment is administered also through 59 general dispensaries, 2 Ayurvedic dispensaries, 1 Unani, 6 women's and children's clinics, 11 Mobile Hospital Units, and 15 Maternity Homes and 27 maternity and child welfare centres. The five general hospitals have maternity wards where maternity cases are treated free of charge. There are 35 family planning centres in Greater Bombay. Anti-rabies treatment is given free of charge at the K.E.M., Nair and Lokamanya hospitals as well as the Bhabha Hospital at Bandra, the Municipal General Hospital at Ghatkopar (at Rajawadi) ; K. B. Bhabha Hospital, Kurla and Smt. M. T. Agarwal Municipal General Hospital, Mulund.

WATER SUPPLY

The water supply of the City is drawn from four lakes : Tansa, Vaitarna, Vihar, Tulsi and Ulhas river. The Tansa lake combined with Vaitarna has a maximum supply capacity and it is the main source of water supply. It is situated about 66 miles north-east of Bombay. The Vihar lake can supply 20 million gallons a day exclusively to

the north-east part of the City and also partly to Chembur and Kurla. It is situated about 18 miles north of Bombay. The Tulsi Lake which is to the north-west of Vihar Lake supplies 3 million gallons a day.

Under Section 140 of the Bombay Municipal Corporation Act the Corporation can levy water tax on buildings, lands and premises in the City. The tax is fixed as a certain percentage of the rateable value of the building, land or premises. The supply of water to any premises can be cut off in default of payment of water tax or any sum due for water or hire of meter or expenses of work done.

If the Municipal Commissioner finds that any premises are not provided with an adequate supply of pure water he has the power under Section 271(2) to compel the person who pays the property tax to obtain an adequate supply from Municipal Water Works and carry out all such works as is necessary for a proper distribution of water.

For purposes of distribution Bombay is divided into five divisions, viz., area getting supply from (a) Malabar Hill Reservoir, (b) Bhandarwada Hill Reservoir, (c) Worli Hill Reservoir, (d) Gollanji Hill Reservoir and (e) directly from trunk mains.

Total water supplied to Greater Bombay per day during the previous year was about 208.36 million gallons. In the year 1965-66 there was a failure of the monsoon creating an emergency. The water level in all the lakes had dropped down to a dangerous low level. The State Govt. was contemplating evacuation to save the tragic situation. But, fortunately the monsoon made its appearance at the very last moment saving the situation.

In view of the overall shortage of water being experienced in Greater Bombay area in recent years, quotas have been fixed to limit the consumption of industries requiring more than 32,996 gallons of water per month.

The schemes envisaged to augment the present water supply are : Rs. 5.25 crores Dahisar river dam, which is expected to yield 6 million gallons of water per day and construction of a dam on the Upper Vaitarna river. Other schemes envisaged are Bhatsai and Kalu river schemes. The Govt. of Maharashtra permitted the Municipal Corporation to draw surplus water from Ulhas river.

The Municipal Corporation will have to make arrangements to convey the additional supply (full supply estimated at 120 million gallon per day) by laying an additional pipe line from Tansa to Bombay. The work of driving a tunnel from Mulund to Kandivali is already in progress. The Corporation will also have to construct additional service reservoirs and distributory mains in Greater Bombay area for proper distribution of water. All the works are likely to cost about Rs. 42.2 crores.

Regular bacteriological and chemical analysis of water is carried out by the Municipal Analyst.

PUBLIC HEALTH DEPARTMENT

The Department is divided into several branches such as environmental sanitation, food sanitation and food adulteration, vital statistics, regulation of places for disposal of the dead, prevention and control of communicable diseases, maternity and child hygiene, family planning, medical relief and health propaganda.

The vaccination staff includes a Superintendent, a Head Vaccinator, a number of vaccinators including a Lady Vaccinator. There are 84 public vaccination stations 7 of which work daily at : 1. The Central Vaccine Depot, Parel. 2. The Sanitary Institute Building, Princess Street. 3. Municipal Suburban Offices, Waterfield Road, Bandra.

4. Andheri Maternity Home, Andheri. 5. Seth N. L. High School, Malad. 6. Kasturba Hospital, Sane Guruji Road. 7. Ferry wharf (closed from June 1, to Sept. 30). The remaining centres work on one day every week by rotation for about 2½ hours. Vaccinations are also done at the Municipal general hospitals.

Hygiene includes maternity and child welfare, family planning and school health.

There are 27 maternity and child welfare centres in Greater Bombay and five maternity wards in general hospitals, each in charge of a Lady Medical Officer. A number of Health Visitors do the follow-up work and ensure domiciliary care under the direction of the Lady Medical Officers. A small maternity unit is conducted at Dharavi. Expectant mothers are encouraged to attend ante-natal clinics, of which there are 27 in number. Maternity Homes in the City are at Cadell Road, Victoria Road, Bellasis Road, Khetwadi, Imamwada Road and Naigaum. And child welfare clinics are conducted (besides the Maternity Homes) at Fergusson Road Dispensary, Dadar Main Road Dispensary, Ambewadi Dispensary at Parel Tank Road, District Dispensary at Souter Street, Tardeo Flats Dispensary, District Dispensary at Charni Road, District Dispensary at Panjrapole, Palton Road Stables Dispensary. Four child health centres, two well-baby centres and three paediatric centres are conducted at Maternity homes.

There are 35 family welfare planning clinics conducted at Municipal maternity homes and hospitals where instruction and advice in the spacing of births are given. Operative procedures are done at the larger Municipal hospitals as well as at Naigaum Maternity Home on a voluntary basis only. In addition six information-cum-distribution centres with vasectomy operations were started in co-operation with the Central and Western Railways. Two more such centres are conducted at Nana Chowk and Worli.

School Health Work is limited to Municipal Schools only and is under a Medical Officer. Children found to have defects are taken for treatment in school buses to the school clinic at K.E.M. Hospital. Dental care is given at the Dental Clinic at the Bai Yamunabai L. Nair Hospital. All children in municipal schools are given free milk on working days.

The Public Health Laboratory which is under the charge of a Municipal Analyst conducts routine and special examinations of water, sewage, food, urine, blood and sputa of patients at Municipal Institutions. There is also a Health Museum maintained for the education of citizens.

Conservancy includes cleansing of streets, etc., removal and disposal of refuse, destruction of rats and dogs, veterinary service, removal of carcasses, disinfection, ambulance and so on.

Medical Relief is given at the following hospitals :

K.E.M., Nair, Lokmanya Tilak Hospital, R.P.T.B. and Kasturba Hospital, at 59 Municipal General Dispensaries, 11 Mobile Hospital units and one Eye Hospital and Dispensary.

WELFARE WORK

To stimulate civic awareness and promote closer contact with the public, the Corporation has been running an illustrated English monthly called 'The Bombay Civic Journal' from March 1954. It deals with the activities and problems not only of the Bombay Municipality, but also of other local bodies all over the country and seeks to foster 'an objective discussion of civic issues and the larger questions relating to local self-government from the national angle'.

Another new development has been the starting of a Public Relations Department in February 1956. This department, besides doing educative publicity through films, posters, pamphlets, press notes etc., has also been issuing useful booklets for the guidance of citizens.

Other activities include the production of films for health education, the introduction of various modern devices for traffic movement, starting of a unit for research in primary education, the opening of a municipal bank, the building of two open-air theatres for the recreation of citizens, holding of civic exhibitions, organisation of health and cleanliness weeks, conducting of seminars, establishment of an electric crematorium, construction of sub-ways, two fly-overs and the starting of a department of preventive and social medicine at the Topiwala National Medical College and a convalescent home at the K.E.M. Hospital and maintenance of a swimming pool.

GREATER BOMBAY (1967-68)

Area : About 1,08,787 acres.

Population : 41,52,056 (1961 census) (City 27,71,933 ; Suburbs 10,36,585 ; Extended suburbs 3,43,538). The mid-year (1968) estimated population of the city, suburbs and extended suburbs was over 50 lakhs.

Below we give particulars about Greater Bombay :

No. of Hospitals (Municipal, Government and Private) 21 ; No. of Municipal Hospitals 14 ; No. of Municipal Dispensaries incl. of women and children as well as Ayurvedic Dispensaries 59 ; No. of Primary Schools (Municipal and Private) 1,566 ; No. of pupils in all Primary Schools 6,33,964 ; No. of Municipal Primary Schools 1,012 ; No. of children in Municipal Primary Schools 4,80,000 ; No. of teachers in Municipal Primary Schools 12,134 ; No. of Municipal Medical Colleges 4 including a Dental College ; No. of Motor Vehicles 68,777 ; Road Mileage about 590 ; No. of Markets (municipal and private) 85 including 7 slaughter houses ; No. of gardens, open spaces etc. 158 ; No. of Fire Brigade Stations 14 ; No. of fire alarms 213 ; Total no. of Municipal employees 45,000 including those engaged on temporary and daily wages basis and excluding the B.E.S.T. ; Annual wage bill of employees about Rs. 7 crores.

CITY

Below we give some facts about the City for 1967-68 :

Area of the City : 67.78 sq. kms. ; Population : 30,53,000 according to mid-year estimates ; Density of population : 43,083 per sq. km.

INCOME (in Rs.) : Actuals for 1967-68 : General Tax etc. 19,70,82,762 ; Water Tax at 4½ per cent including other receipts from Water Works 5,23,28,632 ; Halalkhore Tax at 3½ per cent including receipts from special service 1,45,92,569 ; Total income (Rs.) : 30,10,56,999.

EXPENDITURE (Rs.) : City proper for 1967-68 : Primary Education (for City and Suburbs including Cess plus grants) 4,60,40,770 ; Medical Relief 5,49,18,476 ; Water Works 4,47,64,924 ; Public Health 1,00,49,736 ; Fire Brigade 3,51,320 ; General Supervision, Collection of Revenue, Street Cleaning etc. 6,07,92,527 ; Contributions 5,89,23,910 ; Total expenditure including other items 28,82,26,275.

TAXES, LOANS, ETC. (Rs.) 1967-68 : Incidence of taxation per head 78.03 ; Total rateable value of properties 41,32,28,441 ; Properties registered in the Assessment Book 78,651 ; Rateable value per head of population 149.08 ; Redemption or Sinking Fund in hand or invested 23,52,45,783 ; Net loan debt (City & Suburbs) 64,02,74,747 ; Net debt per head of population 154.21.

BIRTHS AND DEATHS (1967)—For Greater Bombay : Total number of births registered during the year 1,53,230 ; Total number of deaths during the year 56,701.

BUDGET 1968-69 (Estimates Revised)

Here are a few salient features of the City Budget for 1968-69 as adopted by the Municipal Corporation (Rs.) : Opening balance on April 1, 1968, 4,29,22,000 ; Income on existing basis of taxation 41,72,85,000 ; Expenditure 44,39,37,000 ; Deficit 76,16,000 ; Closing Balance 1,86,54,000.

Revenue Account :

New or increased provisions made on revenue account are in respect of medicines, drugs, stores, diets in hospitals and dispensaries, collection and transport of refuse and maintenance of roads, gas and electric lighting and for running Municipal high schools and new works.

Loan Works : (1968-69)

The Loan Works programme includes provision for completion of works already in progress and new works necessary in the interest of health, sanitation, water supply and other civic services. The total amount provided for 1968-69 is Rs. 20,90,04,000 including Rs. 1,91,79,000 for plant and machinery.

Some of the major works for which funds have been provided are as under :—Master Plan for distribution of water supply in the city Rs. 2,29,63,000 ; Upper Vaitarna scheme Rs. 9,38,83,000 ; Bhatsai scheme Rs. 1,00,64,000 ; Ulhas River scheme Rs. 26,33,000 ; Resurfacing the major roads in the city Rs. 11,00,000 ; Construction of slaughter house, at Deonar Rs. 93,00,000 ; Development of the interior portion of the northern part of the Island of Mahim Rs. 11,00,000.

Total Loan Funds (1968-69) : Rs. 17,37,89,000.

A loan of Rs. 15.17 lakhs is proposed for financing the capital expenditure.

SUBURBS (1967-68)

Area of the Suburbs : 175.63 sq. kms. ; Population : 12,65,000 according to 1966 mid-year estimates ; Density of population : 6,900 per sq. km.

INCOME : (Revenue Account) Actuals (Rs.) :

General Tax 2,99,71,403 ; Water Tax by measurement (including other receipts from Water Works) 1,91,36,145 ; Halalkhore Tax at 3½ per cent including receipts from special service 43,95,375 ; Total income, including revenue from other sources 6,13,42,911 ; Rate charged for water supplied by measurement from Rs. 1.65 to Rs. 5.50 per 10,000 litres according to class of property.

EXPENDITURE (Rs.) : Education (Primary) (See under City) ; Medical Relief 62,84,799 ; Water Works 1,72,34,717 ; Public Health 43,52,367 ; Fire Brigade 6,97,252 ; General Supervision, Collection of Revenue etc. 19,82,596 ; Street Cleaning 1,27,34,025 ; Contributions 77,84,450 ; Total expenditure including other items 7,09,42,926.

TAXES, LOANS ETC. (1967-68) (Rs.) : Incidence of taxation per head (as per census of 1961) 35.83 ; Total rateable value of properties 16,72,53,973 ; Properties registered in the Assessment Book 74,411 ; Rateable value per head of population (as per census of 1961) 161.35 ; Debts outstanding 10,51,35,500 ; Redemption of Sinking Fund in hand or invested 4,08,31,000.

EXTENDED SUBURBS

INCOME: Actuals for (1967-68) (Rs.): General Tax 89,28,723; Water Tax (including other receipts from Water Works) 35,49,480; Halalkhore Tax 12,75,424; Total income, including revenue from sources 1,62,79,692.

EXPENDITURE (Rs.): Medical Relief 20,29,792; Water Works 38,34,653; Public Health 12,26,289; General Supervision 7,16,205; Street Cleaning 56,22,011; Contributions 21,74,420; Fire Brigade 1,47,793; Total expenditure 2,21,43,515.

LOANS, TAXES ETC. (1967-68) (Rs.): Incidence of taxation per head as per 1961 census 26.30; Total rateable value of properties 5,46,09,646; Properties registered in the Assessment Book 32,762; Rateable value per head of populations 158.95; Redemption of Sinking Fund in hand invested 70.06 lakhs; Net loan per head of population as per 1961 Census 61.71.

B.E.S. & T. UNDERTAKING

(Of the Bombay Municipal Corporation)

Particulars relating to 1967-68 are: Total staff in the Undertaking 23,858.

Bus Section: No. of vehicles including luxury buses for tourists 1,408; Route kilometres 1,274; No. of passengers carried per day 18,12,854; Specially-built luxury buses for tourists 8; Total income for the year Rs. 11,87,69,113; Total expenditure (excluding passenger tax) Rs. 13,26,98,269.

Electric Supply Section: Total number of units purchased 919.7 million; Total number of units sold (Supply) 855.2 million; Total number of units sold (Traction) 0.9 million; Total number of consumers 3,82,687; Total income Rs. 10,99,41,356; Total expenditure Rs. 9,31,26,682.

Budget, 1968-69

INCOME—(Including share of administrative receipts): Electric Supply Rs. 12,43,48,750; Buses Rs. 13,54,77,373; Trolley Buses Rs. 8,49,377; Total Rs. 26,07,75,500.

EXPENDITURE—(Including share of administrative expenses): Electric Supply Rs. 10,46,42,775; Buses Rs. 15,06,20,845; Trolley Buses 14,11,880; Total Rs. 25,66,75,500.

Appropriation to statutory and other funds or objects Rs. 40,00,000; Estimated closing balance Rs. 1,00,000; Total Rs. 26,07,75,500.

UNIVERSITY OF BOMBAY

Bombay 1.

Incorporated under Act XXII of 1857 (subsequently amended by Act VII of 1904, and reconstituted by the Bombay University Act IV of 1928 and Act XXXI of 1953).

Chancellor: Dr. P. V. Cherian, Governor of Maharashtra, **Vice-Chancellor:** Dr. P. B. Gajendragadkar, **Rector:** Prof. G. D. Parikh, **Registrar:** T. V. Chidambaram.

Number of Teaching Deptts., constituent colleges and recognised post-graduate institutions.

University Deptts.	..	..	..	..	15
Constituent colleges	..	..	..	..	59
Recognised post-graduate institutions..	..	..	..	..	15
Institutions recognised as qualified institutions under 0.84 AA	..	..	..	..	7
Total	..	..	..	..	96

Number of students as on 1st August 1967.

Students in University Departments	..	..	2,551
Students in constituent colleges	..	..	73,906
Students in recognised post-graduate institutions	..	..	619
Total	..	..	77,076

Budget Estimates 1968-69

	Recurring	Non-recurring	Total
	Rs.	Rs.	Rs.
Income ..	1,46,64,735	87,46,545	2,34,11,280
Expenditure ..	1,57,78,072	93,05,625	2,50,83,697
State Govt. Grants	13,74,339	—	13,74,339

List of Colleges (1968-69)

Arts and Science Colleges: (1) Elphinstone College, Fort, Bombay-1. (2) St. Xavier's College, Mahapalika

Marg, Bombay-1. (3) Willson College, Chowpatty, Bombay-7. (4) Ismail Yusuf College, Jogeshwari, Bombay 60. (5) Ramanarain Ruia College, Matunga, Bombay-19. (6) Khalsa College, Matunga, Bombay-19. (7) Sophia College for Women, Bhulabhai Desai Road, Bombay-26. (8) Siddharth College of Arts and Science, Anand Bhavan, Dr. D. N. Road, Fort, Bombay-1. (9) Jai Hind College and Basantsing Institute of Science, 23-24, Backbay Reclamation, 'A' Road, Fort, Bombay-1. (10) M.M. College of Arts and N.M. Institute of Science, (Bhavan's College), Andheri, Bombay-58. (11) Rishi Dayaram and Seth Hassaram National College and Seth Wassiamul Assomul Science College, Bandra, Bombay-50. (12) D. G. Ruparel College, Tulsi Pipe Road, Matunga, Bombay-16. (13) Kishinchand Chellaram College, Dinshaw Wachha Road, Bombay-1. (14) D.E. Society's Kirti M. Doongursee College of Arts and Science, Dadar, Bombay-28. (15) Parle College, Vile Parle (East), Bombay-57. (16) South Indian Education Society's College of Arts and Science, Sion (West), Bombay-22. (17) K. J. Somaiya College of Arts and Science, Ghatkopar, Bombay-77. (18) Shri Vile Parle Kelavni Mandal's M. M. College of Arts and M. D. C. Institute of Science, Vile Parle (West), Bombay-56. (19) Maharshi Dayanand Education Society's College of Arts and Science, Kamgar Manzil, 25, Government Gate Road, Parel, Bombay-12. (20) Smt. Parvatibai Chowgule Cultural Foundation's College of Arts and Science, Margao, Goa. (21) The Goa Education Society's Dhempe College of Arts and Science, Panaji, Goa. (22) Seth Laherchand Uttamchand Jhaveri College of Arts and Mathurdas Vissonji College of Science, Andheri (East), Bombay-69. (23) Ramniranjan Jhunjunwala College, Ghatkopar, Bombay-77. (24) St. Xavier's College, Mapuca, Goa. (25) The Chikitsaka Samuha Sir Sitaram and Lady Shantabai Patkar College of Arts and Science, Goregaon (West), Bombay-62. (26) Carmel College for Women, Nuvem, Goa. (27) Hazarimal Somani College of Arts and Science Chowpatty, Bombay-7. (28) Maharashtra College of Arts & Science, Bellasis Road, Bombay 8.

Science College : The Institute of Science, Fort, Bombay-1.

Commerce Colleges : (1) Sydenham College of Commerce and Economics, 'B' Road, Churchgate Reclamation, Bombay-1. (2) R. A. Podar College of Commerce and Economics, Matunga, Bombay-19. (3) Siddharth College of Commerce and Economics, Anand Bhavan, Dr. Dadabhai Nowroji Road, Fort, Bombay-1. (4) H. R. College of Commerce and Economics, Dinshaw Wachha Road, Churchgate, Bombay-1. (5) M. L. Dahanukar College of Commerce, Dixit Road, Vile Parle (East), Bombay-57. (6) Smt. Mathibai Motiram Kundnani College of Commerce and Economics, Bandra, Bombay-50. (7) Chinai College of Commerce, Andheri (East), Bombay-69. (8) Shri Vile Parle Kelavani Mandal's Shri Narsee Monji College of Commerce and Economics, Juhu Development Scheme, Vile Parle (West), Bombay-56. (9) The Goa Education Society's College of Commerce, Panaji, Goa.

Training Colleges : (1) Secondary Training College, 3, Mahapalika Marg, Bombay-1. (2) St. Xavier's Institute of Education, 15, New Marine Lines, Opp. U.S.I.S. Library, Bombay-1. (3) Sadhana School of Educational Research & Training, Near Lion's Park, Juhu Road, Santa Cruz (West), Bombay-54. (4) Institute of Education, Nossa Senhora da Piedade, Panaji, Goa.

Engineering Colleges : V. J. Technical Institute, Matunga, Bombay-19. (2) Sardar Patel College of Engineering, Andheri, Bombay-58. (3) College of Engineering, Panaji, Goa.

College of Pharmacy : Goa College of Pharmacy, Panaji, Goa.

Law Colleges : (1) Government Law College, Opp. Churchgate Station, Bombay-1. (2) New Law College, Tulsi Pipe Road, Matunga, Bombay-16. (3) Siddharth College of Law, Anand Bhavan, Dr. D. N. Road, Fort, Bombay-1. (4) Kishinchand Chellaram Law College, Dinshaw Wachha Road, Bombay-1.

Medical, Dental and Nursing Colleges : (1) Grant Medical College, Byculla, Bombay-8. (2) Seth G. S. Medical College, Parel, Bombay-12. (3) Topiwala National Medical College, Lamington Road (North), Bombay-8. (4) Goa Medical College, Panaji, Goa. (5) Municipal Medical College, Sion, Bombay-22. (6) Government Dental College & Hospital, St. George's Hospital Compound, Bombay-1. (7) Nair Hospital Dental College, Lamington Road (North), Bombay-8. (8) College of Nursing, New Nurses' Quarters, Sir J. J. Hospital Compound, Byculla, Bombay-8.

College of Architecture : Sir J. J. College of Architecture, Dr. Dadabhai Nowroji Road, Fort, Bombay 1.

S. N. D. THACKERSEY WOMEN'S UNIVERSITY

1, Nathibai Thackersey Road, Maharshi Karve Road, Bombay 20.

The University conducts an Arts College, a College of Nursing, a College of Education, a College of Home Science, and a School of Library Science at Bombay, and one Arts College, a College of Education and a College of Home Science at Poona. It also conducts three High Schools at Bombay and Poona. Five Colleges at Ahmedabad, Bhavnagar, Baroda, Surat and Matunga are permanently affiliated to this University and five colleges at Ghatkopar, Fanaswadi, Surendranagar, Visnagar and Malad are temporarily affiliated to it.

Chancellor : Governor of Maharashtra. **Vice-Chancellor :** Dr. Smt. Premila V. Thackersey. **Dean of the Faculty of Arts :** Smt. Sharda Divan. **Registrar :** Smt. Kamalini H. Bhansali.

Budget : 1968-69 :

	<i>Recurring</i>	<i>Non-Recurring</i>	<i>Total</i>
	Rs.	Rs.	Rs.
Income :	36,27,551	21,24,111	57,51,662
Expenditure :	42,56,177	29,37,100	71,93,277

Degrees Awarded : B.A., M.A., Ph.D., B.Ed., M.Ed.; B.Sc. Home Science; M.Sc. Home Science; B.Sc. Nursing; B.Lib. Science.

AHMEDNAGAR DISTRICT*

Headquarters : Ahmednagar.

The language spoken is Marathi.

The staple food grains are jawar and bajra. Wheat and gram are grown in the vicinity of the rivers and rice in the westernmost Akola Taluka including other irrigated areas. Vari and ragi are cultivated in soils which are suited to coarser grain. The pulses are tur, mung, math and kulith. Among the cash crops may be mentioned cotton, hemp, safflower, sesamum, linseed, sugarcane, tobacco, kardi, pan, groundnut, tomatoes, bananas and potatoes. Recently sisal fibre crop plantations are undertaken on an extensive scale.

The chief historical places of interest to visitors are the Ahmednagar Fort, the tomb of Mughal Emperor Aurangzeb

(on the outskirts of the town), the temple of Dnyaneshwar, the residential palaces of the Shindyas and the Peshawas at Jamgaon and Kopergaon respectively.

Among industries sugar is now one of the most important. There are twelve sugar factories in the District. Gurmaking, handloom weaving, iron foundries and bidi making are the other important industries.

There are ten irrigation tanks in the District.

There is a Holiday home at Bhandardara, a summer resort and hill station.

Apart from Colleges, there are about 98 Secondary High Schools in the district out of which three high schools are exclusively for girls.

AKOLA DISTRICT*

Headquarters : Akola.

The greater part of it is fertile alluvial land but the Satpura plateau rises abruptly on its northern border with the ancient fort of Narnala nestling on one of the hills and commanding the whole Poorna plain. The

average rainfall is 30 inches and the temperature in summer rises in certain places to 118 degrees during the day.

The District is mainly agricultural but there are cloth mills, a number of cotton ginning and pressing factories and oil mills.

For the area and population of the districts, see article *Population*.

AMRAVATI DISTRICT*

Headquarters : Amravati. Amravati is a plain about 800 feet above sea-level.

The language spoken is Marathi.

The staple foodgrain is jawar. Other foodgrains are wheat and pulses. Cash crops include cotton and oilseeds, of which cotton is the more important.

AURANGABAD DISTRICT*

Headquarters : Aurangabad.

The most important cave temples in India — at Ellora and Ajanta — are found in this District. The great fort of Daulatabad is an extraordinary structure; the village of Khuldabad has the tombs of the Emperor Aurangzeb and of Asaf Jah, the founder of the former ruling dynasty.

MARATHWADA UNIVERSITY

(Aurangabad)

Total No. of Affiliated Colleges : 38.

Total number of students in University Departments and all the affiliated Colleges : Nearly 23,960.

There are nine faculties in which provision for teaching courses of study leading to the following degrees has been made :—

Faculty of Arts : B.A., M.A., Ph.D. ; Faculty of Science : B.Sc., M.Sc., Ph.D. ; Faculty of Law : LL.B., LL.M. ; Faculty of Medicine : M.B., B.S., M.D., & M.S. ; Faculty of Commerce : B.Com., M.Com. ; Faculty of Agriculture : B.Sc. (Agriculture), M.Sc. (Agriculture) ; Faculty of Education : B.Ed., M.Ed. ; Faculty of Engineering : B.E. (Civil), B.E. (Electrical), B.E. (Mechanical), M.E. (Civil) ; Faculty of Ayurveda : B.A., M.S.

The University has so far instituted the Departments of (i) Marathi Language and Literature, (ii) Economics,

(iii) Chemistry, (iv) Zoology, (v) Political Science, (vi) History and Ancient Indian Culture, (vii) Botany, (viii) Mathematics, (ix) Physics, (x) English, (xi) Commerce, (xii) Sociology, (xiii) Hindi, (xiv) Foreign Languages (German & Russian).

The post-graduate teaching has been instituted in the following subjects :—

English, Marathi, Hindi, Sanskrit, History, Economics, Urdu, Sociology, Education, Medicine, Law, Mathematics, Chemistry, Botany, Commerce, Engineering, Political Science and Zoology.

Research : Facilities exist for research in Economics, Chemistry, Zoology, Botany, Political Science, Marathi Language and Literature, History and Ancient Indian Culture, Mathematics and Physics, English, Urdu, Hindi.

Chancellor : Governor of Maharashtra ; *Vice-Chancellor :* Dr. N. R. Tawde ; *Registrar :* V. K. Dhamankar.

Budget Estimates for 1968-69

Grants from the State Government : Rs. 26,26,660.

Grants by the University Grants Commission and the Government of India : Rs. 9,45,936.

Other Income : Rs. 23,68,155.

Expenditure : Rs. 59,40,751.

BHANDARA DISTRICT*

Headquarters : Bhandara.

The chief language is Marathi but Hindi is also spoken by a considerable section of the population.

The principal food crops are rice, jawar, wheat, gram, linseed and pulses. Ginger, oranges and plantains are also

grown and sent to Nagpur. Mineral deposits include those of manganese, iron and a little gold.

The chief industries are weaving, making of brass vessels and stone jars, of soft grass matting for bedding, and of bamboo baskets.

BHIR DISTRICT*

Headquarters : Bhir.

There are forts and buildings at Bhir which are of archaeological interest. Amba has a temple dedicated to Jogai. The temple of Baijnath at Parli is a celebrated place of Hindu pilgrimage.

The soil is mostly black cotton. On this are grown cotton, white jawar, gram, gingelly and wheat, while on the masab and kharab soils are grown white bajra, yellow jawar, pulses and oilseeds. Cotton and linseed are produced extensively in the District. The staple food crops are jawar and bajra. Wheat and rice are next in importance.

BULDANA DISTRICT*

Headquarters : Buldana.

The language spoken is Marathi.

Jawar is the chief food crop, though wheat is also grown. The most profitable cash crop is cotton with oilseeds

coming next.

The principal industry is the preparation of cotton for the market. Exports consist of raw cotton, oilseeds, grain and pulses, and the imports include grain and pulses, coal and coke, sugar and salt.

* For area and population of the districts see main article *Population*.

CHANDA DISTRICT*

Headquarters : Chanda.

The languages spoken are Marathi, Hindi, Telugu and Gondi.

Except in the open country on the west and north, the whole District is thickly wooded.

The forest vegetation in the District is of a mixed character. Teak is fairly general but is not anywhere very plentiful. The principal trees are Saj, Bijasal, Rohan, Kaddan, Haldu, Semal, Mahua, Dhaura, Tendu, Garari and Palas. The forests are well distributed, and very few

villages are more than three miles from some part of them.

The annual rainfall averages about 51 inches at Chanda Town and 46 at Warora.

Rice which is the most important crop is grown in the centre and east of the District. Jawar is the chief crop in Sironcha and the Warora Tahsils, while linseed, gram and wheat are grown principally in the black-soil lands of the Chanda Haveli and those adjoining the Wardha river. Cotton is also an important cash crop.

Coal-mines occur and there are match factories, ceramic industries and paper manufacture.

DHULIA DISTRICT*

Headquarters : Dhulia.

The languages spoken are Marathi, Gujarati and Bhil.

The main crops of this District are cotton, wheat, bajra, jawar and groundnut. Sugar-cane and chillies form the main irrigated crops. There are two types of irrigation in this District: (1) Well irrigation and (2) Bandhara irrigation.

There is a Government Agricultural Institute, where Gram Sewaks are trained.

INDUSTRIES

Dhulia is the biggest cotton centre in the Dhulia District and has a well regulated Cotton Market. There is also another regulated Cotton Market at Dondaiche in the Sindkheda Taluka. There are spinning and weaving factories as well as cotton ginning and pressing factories.

Dhulia has also been lately developing into a groundnut oil industry centre. There are about 42 oil mills, including 14 at Dhulia, which together produce about 2,000 tons of groundnut cake. There are also saw mills.

The newly built hill station of Toranmal, is situated on the Satpura range plateau at an altitude of 4,200 feet. The climate is very salubrious.

JALGAON DISTRICT*

Headquarters : Jalgaon.

Jalgaon District, with Jalgaon as capital, is one of the northernmost Districts in Maharashtra.

AGRICULTURE

The most important crops are cotton, groundnuts, jawar, bajri, gram, millet, linseed and sesamum. The most important garden crops are chillies, coriander, melons, watermelons, betel leaf, bananas, mosambis, santra and sugarcane. Cotton and groundnut are even more important. There is a large export trade in groundnut oil and hydrogenated oil or vanaspati.

Jalgaon is the biggest town and District headquarters, a great trade centre, and also an educational centre. The town is 37 miles from Ajanta Caves.

The rainfall (mean annual is 28.27 inches) is usually both general and regular, which fact in itself discourages irrigation, except for two weirs, at Jaunda (Chalisgaon taluka) and Dahigaon (Erandol taluka) on Girna River project, irrigating about twenty thousand acres of land.

The main industry is based on agriculture. There are several oil mills in the District, besides several bullock driven presses. There is a silk mill in the District. There is also a factory, which manufactures crackers and fireworks.

There are in the whole District three spinning and weaving factories, about 100 cotton ginning and pressing works, about ten dyeing factories, three big railway workshops (at Bhusawal) all employing more than 26,000 people.

KOLABA DISTRICT*

Headquarters : Alibag.

Notable places in the District are Raigarh near Mahad, once the capital of the great Shivaji and Kanakeshwara near Alibag, which is now a holiday resort being situated on a hill. Elephanta in Kolaba is famous for caves. Alibag has the world famous magnetic observatory. The historical sea-fort Kolaba, at Alibag, was the naval capital of Shivaji.

AGRICULTURE, POWER

On the flat lands of the District rice is grown, and the sea-front is fringed by a belt of coconut and arecanut

palms. There is large-scale plantation of mango grafts. There is a thriving fishing industry. The District has three Power Houses. Uran and Pen are big salt-producing centres. Panvel and Khapoli have assumed importance for their industrial growth in recent years.

MATHERAN (HILL STATION)

Matheran is a hill station and sanitarium, about three hours' journey from Bombay and Poona. Visitors are conveyed up the hill from Neral (Central Rly). The town is about 2,500 feet above sea-level, and is a favourite hot weather resort.

* For the area and population of the districts see article *Population*.

KOLHAPUR DISTRICT*

Headquarters : Kolhapur.

The language spoken is mostly Marathi, though Kannada is also spoken in a few parts. Kolhapur city, the headquarters, is a great trading centre for jaggery.

The chief agricultural products are jawar, rice, cotton, nagli, bajra, wheat, tobacco, sugarcane and ground-nut.

Besides cotton mills, there are ginning and pressing factories. There are also ginning and powdering mills, groundnut crushing and oil mills, a sugar mill, cinema-film producing companies and soap factories and repair workshops.

SHIVAJI UNIVERSITY

Kolhapur 4.

Estd. 1962. It is situated at Kolhapur with jurisdiction over the five districts of Southern Maharashtra, i.e. Kolhapur, Sangli, Satara, Sholapur and Ratnagiri. There

are 57 colleges and institutes within the area of the University of which seven are situated at the seat of the University. The University has the following faculties. 1. Faculties of Arts and Social Sciences : B.A. ; M.A. ; Ph.D. ; B. Lib. Sc. ; Dip. in Coop. ; Certificate in Journalism ; M.S.W. 2. Faculty of Science : B.Sc. ; M.Sc. ; Ph.D. 3. Faculty of Law : LL.B. ; LL.M. ; Dip. in C.F.Sc. 4. Faculty of Commerce : B.Com. ; M.Com. 5. Faculty of Education : B.Ed. ; M.Ed. ; Ph.D. ; T.D. (Dip. in Teaching). 6. Faculty of Engineering : B.E. (Civil) ; B.E. (Mechanical) ; B.E. (Electrical) ; M.E. 7. Faculty of Medicine : M.B.B.S. ; B.Pharm. , M.Sc. (Anatomy), Physiology, Pharmacology, Physiological Chemistry.

Chancellor : Dr. P. V. Cherian. *Vice-Chancellor* : Dr. A. G. Pawar. *Registrar* : Dr. Mrs. Usha G. Ithape.

Budget (Estimates) 1968-69 :

Total Income : Rs. 87,55,393 ; *Total Expenditure* : Rs. 98,37,574.

NAGPUR DISTRICT*

Headquarters : Nagpur.

The language spoken is Marathi.

The richest part of the District is the western half of the Katol Tehsil. It possesses a soil profusely fertile and teems with the richest garden cultivation. From Pikapar Hills in the Katol Tehsil the plains extend to the eastern border. Its surface is scarcely ever level, but it is closely cultivated, abounds in mango groves and trees of all sorts, and towards the east is studded with small tanks which form a feature of the landscape. The elevation of the plain country is from 900 to 1,000 feet above sea-level.

The forests are mainly situated in a large block on the Satpura Hills to the north-east, while isolated patches are dotted on the hills, extending along the south-western border.

The annual rainfall averages about 47·5 inches.

Cotton and jawar are the chief produce of the District which is also famous for its oranges. There are some manganese mines and limestone quarries in the District and coal-mines at Kamptee.

There are five textile mills in Nagpur City, 2 steel Rolling Mills, a number of oil mills, a pottery concern, saw mills, a rubber factory, a thriving frame making

industry, a large fruit canning industry and a large number of handloom factories. Nagpur saris are in great demand in all parts of the country.

NAGPUR UNIVERSITY

Year of Foundation : 1923.

Chancellor, Governor of Maharashtra. *Vice-Chancellor*, Dr. V. B. Kolte. *Registrar*, Dr. S. V. Bhagwat.

Teaching and affiliating : University Colleges 3, University Teaching Departments 22 ; Affiliated Colleges 85.

Students (1966-67) :

University Colleges : 978 (Men 887; Women 91).

University Teaching Departments : 1,007 (Men 720; Women 287).

Affiliated Colleges : 49,895 (Men 40,943 ; Women 8,952).

Budget Estimates (1966-67) :

Central Government Grants : Rs. 1,76,574·68.

State Government Grants : Rs. 16,15,301·44.

University Grants Commission : Rs. 16,59,058·26.

Total Income : Rs. 1,50,06,979·45.

Total Expenditure : Rs. 1,49,65,548·94.

NANDED DISTRICT*

Headquarters : Nanded.

The District is on the whole dry and healthy. The annual temperature varies between 100° and 60°. The average rainfall is about 35 inches.

There are tombs of Muslim saints and Nanded has the

Gurudwara of the Hyderabad Sikhs where Guru Govind was buried.

Rabi crop consists of jawar, gram, wheat, oilseeds. The Kharif crop consists of bajra, linseed, cotton and maize. The staple food crop is jawar and the main cash crop cotton.

NASIK DISTRICT*

Headquarters : Nasik.

Nasik District is a historic place in Maharashtra and the city one of the oldest in the Deccan and a place of pilgrimage. The language spoken is Marathi.

With the exception of a few villages in the west the whole District lies on a tableland at an elevation of 1,300 to 2,100 feet above sea-level.

The main food crops are rice, wheat and bajra.

* For area and population of the districts see main article *Population*.

OSMANABAD DISTRICT *

Headquarters : Osmanabad.

The average annual rainfall is about 32 inches.

Six places of archaeological interest are the fort of Naldrug, the Jumma Masjid in Owsa Taluka, the caves around the town of Osmanabad, the two caves at Hasan-

gaon, the old fortress at Parendah. Tuljapur is a place of Hindu pilgrimage.

The staple food grain is jawar. Wheat, rice and bajra are next in importance. Cotton is grown everywhere, while sugarcane is sometimes grown with well irrigation.

PARBHANI DISTRICT *

Headquarters : Parbhani.

The climate is healthy from February to May but it is feverish during the monsoon and the cold weather. The annual range of temperature is from 105° to 60°. The average annual rainfall is about 35 inches.

Structures of note in the District are the temple of Nagnath at Aundh, the Jain temple of Parsnath near

Jintur, the temple near Bamu and the shrine of Ramzan Shah.

The soil is partly black cotton and partly masab and kharab. On the black soil are grown white jawar, wheat, gram, tuar, while on the kharab soils are grown jawar, bajra, indigo, sesamum, oilseeds and pulses. The staple food crops are jawar, wheat and bajra. Cotton is grown throughout the District. About one-twentieth of the land is under forest.

POONA DISTRICT *

Headquarters : Poona.

The language spoken is Marathi.

The rainfall varies considerably in different parts of the District. In the western parts it is heavy and regular, in the central belt moderate, and in the east very irregular. The main crops are paddy and jawar. But the District is a deficit area in the matter of food grains. The District has an exportable surplus of jaggery and sugar.

It is the headquarters of the Southern Command and also of the Poona Sub-Area. The National Defence Academy is located in Khadakvasla. Some of the other military establishments around Poona are: the Ordnance Depot and the Arsenal at Kirkee and the Vehicles Depot at Dehu Road. The Indian Navy Mechanical Training establishment I.N.S. "Shivaji" is located at Lonavla, and the newly established Naval Engineering College, first of its kind in India, in the precincts of I.N.S. "Shivaji". Ammunition Factory, High Explosives Factory and 512 Command Workshop are all at Poona.

Armed Forces Medical College for post-graduate training in military medical science is also located in Poona. A Medical College for degree course run by the Army, which is perhaps the only one of its kind in the world from the point of view that the Army is running it, is located in Poona.

Yet other institutions are the Institute of Armament Studies and the Artificial Limbs Centre, the only one of its kind not only in India but also in South and West Asia and the fourth largest in the world. A gliding centre is also located near Poona. The National Cadet Corps Academy on Purandhar Fort, 30 miles South-East of Poona. College of Military Engg.

Other important institutions of All-India character located in Poona are given below :

Meteorological Office ; Central Water and Power Research Station ; National Chemical Laboratory ; Overseas Communications' Beam Wireless Station at Dighi ; Headquarters of the Servants of India Society ; Bhandarkar Oriental Research Institute ; Penicillin Factory, Pimpri ; Virus Research Centre, the only one of its kind in India ; The Film Institute of India.

Besides the two industrial estates at Hadapsar and Pimpri, the whole belt along the Bombay-Poona Road

from Kirkee, Dapodi, Pimpri, Chinchwad upto Lonavla is fast attracting industries of various types.

There are 4 sugar factories in the Dist. and 1 sugar manufacturing machinery factory at Pimpri.

The district can also boast of important places of historical and archaeological interests. Shivneri fort, birth place of the great Maratha Hero, Chhatrapati Shivaji, the famous Karla & Bhaja caves which constitute a fine example of Buddhist architecture of 1st Century B.C., Samadhis of Kasturba Gandhi and Mahadevbhai Desai are located in the district.

LONAVLA

This hill station is situated at the top of the Bhore Ghat incline about 2,030 feet above sea-level.

The Govt. of Maharashtra has started a holiday camp at Karla at a distance of about 1½ miles from Malawali Railway Station.

The following are some of the Forts and places of interest :—

Fort of Lohgadh, Fort of Visapur, Fort of Rajmachi which stands on the top of the Sahyadri Range and commands a grand view of Matheran, Konkan and even part of Bombay, Duke's Nose, Tungarli Municipal Lake.

The temperature varies from 65 in the cold weather to 85 in the hottest month. The rainfall varies from 160 to 250.

KHANDALA

Khandala, a health resort, 78 miles from Bombay by rail and 71 by road lies in Mawal Taluka. It is situated at the top of the Bhor Ghat at an elevation of about 2,000 feet above sea-level, and has an agreeable and bracing climate all through the year.

Among places worth a visit in and around the town are Tata Electric Supply Company's reservoir called Forbay Dam, Byramjee's Point, the Duke's Nose, Tiger's Leap, all of which provide magnificent views of the surrounding country. About nine miles from Khandala are the Karla caves considered to be the oldest specimen of Buddhist caves in India. In Walwan lake which is about four miles from Khandala good mahashir fishing is available. At Khandala "Rajmachi Park" is one of the most beautiful spots.

* For area and population of the districts see main article *Population*.

UNIVERSITY OF POONA

Ganeshkhind, Poona 7.

Estd. 1948.

The University is both teaching and affiliating in character.

It has the following nine Faculties and has provision for courses for the following degrees:—*Faculty of Arts*: B.A., M.A., Ph.D., D.Litt., B.A. (External), M.A. (External); *Faculty of Mental, Moral and Social Sciences*: B.A., B.A. (External), M.A., M.A. (External), B.Ed., M.Ed., Ph.D., D.Litt., B.Lib.; *Faculty of Commerce*: B.Com., B.Com. (External), M.Com., M.Com. (External), Ph.D., D.Litt.; *Faculty of Science*: B.Sc. (General), M.Sc., M.Sc. (Maths.), M.Sc. (Maths.) (External), Ph.D.; *Faculty of Law*: LL.B., LL.M., LL.M. (External), Ph.D.; *Faculty of Medicine*: M.B.B.S., M.D., M.S., Ph.D., B.Sc. (Nursing), M.Sc. (Med.); *Faculty of Engineering*: B.E. (Civil, Mechanical, Electrical, Telecommunications and Metallurgy), M.E., M.Sc. (Engg.), Ph.D.; *Faculty of Agriculture*: B.Sc. (Agri.), M.Sc. (Agri.), Ph.D.; *Faculty of Ayurvedic Medicine*: B.A.M. & S., M.A.Sc.

The University has instituted external degrees for the benefit of employed persons and married women, the B.A. (External), M.A. (External), B.Com. (External) and M.Com. (External) degrees in the Faculties of Arts and Mental, Moral and Social Sciences and Faculty of Commerce, M.Sc. (Maths.) (External) in the Faculty of Science,

LL.M. (External) in the Faculty of Law to which students can qualify by appearing for the examinations direct without having to undergo instruction in a College or University.

The following diplomas and certificates have been instituted (1) Diploma in Oriental (Sanskritic) Learning; (2) Certificate and Lower and Higher Diploma Courses in Modern Foreign Languages (French, and German); (3) Diploma in Public Health; (4) Diploma in Psychological Medicine; (5) Diploma in Anaesthesia; (6) Diploma in Music; (7) Diploma in Clinical Pathology; (8) Diploma in Radio Diagnosis; (9) Diploma in Gynaecology—Laryngology; (10) Diploma in Ophthalmology; (11) Diploma in Education.

The University has in all 56 affiliated colleges and 6 recognized research institutions.

The total strength of students in all the colleges and the University is in the neighbourhood of 40,134.

Chancellor: Governor of Maharashtra; *Vice-Chancellor*: Dr. H. V. Pataskar; *Registrar*: W. H. Golay.

BUDGET (1967-68)

Income: Rs. 1,28,04,247; *Expenditure*: Rs. 1,15,63,995.

RATNAGIRI DISTRICT*

Headquarters: Ratnagiri.

This is the backward district with peculiar circumstances. Ratnagiri is known and famous as the birth place of Lokamanya Tilak.

The main crop is Alphonso mango — the king of fruits. The chief crop is rice on banks of rivers and on plain ground on 3,15,840 acres of land yielding 1,13,300 tons. Groundnut and sugarcane crop is under experiment since two years. Second important crop in the form of industry is sea fish.

One hundred and seventy-five High Schools, 5 Colleges, one Agricultural College, 8 Training Colleges (6 males and 2 females), Polytechnic, I.T.I., N.C.C. Unit cater to the educational needs of the district.

Ratnagiri midway between Bombay and Goa is soon going to be converted into an all weather port at Mirya Bay. Jaygad and Vijaydurg are safest ports. Several others are under improvement. Sindhudurg sea fort near Malwan was constructed some 300 years back by Shivaji, of which Government is undertaking reconstruction.

This district has 15 weekly newspapers, all except one at Ratnagiri.

The southern district and Bombay are linked to Ratnagiri by sea in the fair season and by road all the year. State Transport buses are plying direct to Bombay from several places in the district.

Bhagini Mandal and Mahila Mandal are the organisations at Ratnagiri devoted to female activities. At Sawantwadi there is a NIVARA KENDRA for the relief of the distressed and uncared for ladies. Kasturba Arogya Kendra and Matru Mandir at Lanja and Devrukh respectively do good for ladies and children. Animal husbandry centres, Health and S.M.P. Centres with five Ayurvedic Dispensaries give service to animals and human beings.

Notable place in this district is Marleshwar, a place about 10 miles to the east of Devrukh in Sahyadri in the interior. Temple of God Shiva is encircled by very high hills. This place is known for purity.

The climate of the district is moderate.

SANGLI DISTRICT*

Headquarters: Sangli.

Sub-Divisions: Miraj, Khanapur.

The climate of the District is generally dry and healthy, with an average rainfall ranging from 15 to 25 inches.

The Krishna, the Verala, the Warana, and the Agarani are the four important rivers flowing through the District. The soil on the banks of these rivers is very fertile, yielding rich sugarcane crops.

The principal crops grown in the District are jowar, millets, pulses, wheat, ground-nut, turmeric, tobacco,

sugarcane and a little cotton and rice and some oil-seeds.

Sangli, which is the headquarters of the District, is an important centre of trade and commerce specially for tobacco, groundnuts, turmeric, jaggery, chillies, ghee, and cotton trade. It has ginning, weaving and spinning mills, groundnut, turmeric, iron and steel factories. The town is also known for its silver, copper and brassware and gold ornaments. Bidi making is another big industry.

Besides, Sangli is a big centre of forward-delivery transactions in groundnut-kernel.

* For area and population of the districts see main article *Population*.

SATARA DISTRICT*

Headquarters : Satara.

The language spoken is Marathi.

The chief agricultural produce are jawar and bajri. Others include ragi, wari, wheat, rice and pulses. Cash crops which are a minor item include tobacco, groundnut and sugarcane.

Forests in the Sahyadri range have considerable store of timber and fire-wood. Sandalwood and bamboo are occasionally found.

Government have undertaken the Koyna river project envisaging the construction of a gigantic Dam close to Helwak village (Patan Taluka) water from which can be used for agricultural purposes by people from Satara, Sholapur and Bijapur Districts and for generating electricity for industrial purposes.

There is a large engineering concern manufacturing farm implements, machine tools, and textile machinery at Satara Road Station. Another engineering concern has been established at Udyamnagar near Karad while the one at Karad proper has been expanded with State aid.

MAHABLESHWAR

Mahableshwar, 75 miles from Poona, is called the queen of the hill stations in Maharashtra. It is situated on one of the great slopes of the Sahyadri range at an elevation of 4,700 feet above sea-level. During the 8 months from October to May the climate is most agreeable. By day the temperature varies between 80 and 86, while the nights

are cool and pleasant. But during the monsoon the rainfall is so heavy, the average being about 250 inches a year, that the place is almost uninhabitable.

It is now possible for people of moderate means to go to the hill station for a comparatively inexpensive holiday and change in the newly opened Holiday Camp set up by the Maharashtra Govt.

The Camp is normally thrown open during the months October to May, and applications for accommodation have to be addressed to the Executive Engineer, Poona Division, Poona. Hotels are open only eight months in the year and are closed during the monsoon.

PANCHGANI

Panchgani is a well-known hill station in Satara District, situated 63 miles from Poona. It is 4,300 feet above sea-level and has a cool, salubrious and comparatively dry climate. The average rainfall is about 80 inches a year. Panchgani is thus a well-known sanatorium.

Panchgani is habitable throughout the year, and there are excellent shops for provisions and oilman stores. The town is electrified and the roads are well lighted. The town has a large and up-to-date tuberculosis sanatorium — Bel Air Sanatorium.

Panchgani is famous for its schools. They all have their own buildings with laboratories, dormitories and hospitals.

SHOLAPUR DISTRICT*

Headquarters : Sholapur.

The languages spoken are mainly Marathi and also Telugu and Kannada.

THANA DISTRICT*

Headquarters : Thana.

The languages spoken are Marathi, Gujarati and Urdu.

In the north-east the hills are covered with wood, and the valleys are but partially cultivated. The villages are seldom more than scattered groups of huts, and the population consists mainly of uncivilised aboriginal tribes, many of whom still wander from place to place as they find water or to suit their fancy.

Thana District is fast developing into a prominent industrial area. Hundreds of acres of land are being converted into sites for factories. Scores of factories have already been set up particularly along the railway track and the Bombay-Agra and Bombay-Poona Roads.

Bhiwandi, a Taluka town nine miles from Thana situated on the Bombay-Agra Road is noted for handloom and powerloom fabrics. The town is mostly inhabited by Momins and in some parts of the town every house has a spinning wheel. Bhiwandi Taluka is also famous for its timber and charcoal trade.

Kalyan, the biggest and the most thickly populated town in the District, is 34 miles from Bombay and is a junction on the Central Railway's north-east and south-east sections. "Ulhasnagar" the largest refugee township

in Maharashtra is situated in Thana District, two miles from Kalyan near the Ulhas River. The township is designed to accommodate 90,000 people.

The main produce of the District is rice which is of superior Kolamb variety.

Dahanu and Bassein Talukas are specially famous for fruit garden and the bulk of Bombay's fruit supply comes from these areas.

At Thana, Bhayandar and Belapur there are extensive salt works.

The chief articles of export from Thana District are paddy, rice, vegetables, salt, betel-leaves, plantains, bricks, grass, firewood, charcoal, lime, fish (fresh or dried), timber, coconuts, mangoes, flowers, saris, handloom fabrics, woollen cloth and milk.

Tansa and Vihar lakes and the Vaitarna river which are the main sources of Bombay's water supply are situated in Thana District and are connected with Bombay by a special trolley line.

The Fort, the Portuguese Cathedral, a few carved and inscribed stones, and several reservoirs are now the only signs that Thana was once an important city. Bassein, on the Western Railway, contains the famous ruins of the ancient Portuguese dominion in Salsette.

* For area and population of the districts see main article *Population*.

WARDHA DISTRICT *

Headquarters : Wardha.

The languages spoken are Marathi and Hindustani.

Wardha is noteworthy in that it has been the seat of a number of Gandhian institutions concerned with village uplift and the ideals of self-sufficiency and self-service.

Wardha has black cotton soil and the most important cash crops grown are jawar and cotton. Though there are rivers like Wainganga, agriculture depends on rain. There is thus an elaborate programme today for sinking new wells and deepening old ones. There are pressing and ginning mills in the District and also textile mills.

YEOTMAL DISTRICT *

Headquarters : Yeotmal.

The language spoken is Marathi.

The staple foodgrain is jawar; other foodgrains are wheat and pulses. As elsewhere the most profitable cash

crops are cotton and oilseeds. Forests cover a larger area than in any other District in the State and yield considerable quantity of timber and fuel. The principal industry is the preparation of cotton for the market.

MANIPUR

CAPITAL : Imphal.

Area : 8,628 sq. miles; **Population** (1966) : 9,40,876; **Density** : 109; **Sex Ratio** : 1,037 females per 1,000 males; **Literacy** : 30.04 per cent. **Strength of Legislative Assembly** : 32 including two nominated members.

Manipur bounded on the east and south by Burma and on the north and west by the Naga Hills and the Cachar District of Assam, is a highly strategic territory on the eastern frontier of India. Two land routes from Burma pass through its territory.

Seven hundred square miles of the Territory form a central valley, 2,600 feet above sea-level, which is shut in on all sides by extensive hill tracts at places over 6,000 feet, covering the rest of the Territory. The climate varies from temperate in the valley to cold in the high hills. The rainfall on the average is 65 inches in a year.

The main population is "Meiteis" inhabiting the valley with some 40 tribes and sub-tribes known by the generic names of Nagas and Kukis. Though a number of different dialects are spoken in the Territory, Manipuri and English are the official languages. The people are carefree and

healthy, with a passion for religious festivals involving community dances in which both sexes join.

The soil is fertile. Rice is the principal crop. The production of foodgrain in 1967-68 was 2,25,000 tonnes. The area under cultivation is about three lakh acres.

Handloom weaving is a popular industry throughout the Territory and Manipuri cloth of various picturesque and indigenous designs is in demand throughout India and even outside.

There are 12 colleges, 118 high and higher secondary schools, 305 middle and junior high schools, and 2,096 primary and junior basic schools. The total number of students during 1967 was 209,300 including 62,800 below six years of age.

There are 13 hospitals, 59 dispensaries, 12 primary Health Centres, 38 Sub-Centres, one T. B. Clinic, 4 Leprosy Sub-Centres, one V. D. Clinic, one Dental Clinic, one M.C.W. Centre, 11 F.W.P. Centres, one B. C. G. Programme centre and two N. M. E. P. Units.

ADMINISTRATIVE PERSONNEL

(See under *States Administrative Personnel*)

MYSORE STATE

Area : 192,204 sq. kms. (74,210 sq. miles).

Population : (1961 census) : 23,586,772 (males 12,040,923; females 11,545,849). **Percentage increase 1951-61** : 21.57. **Sex ratio** : 959 females for 1,000 males. **Density** : 123 per sq. km. **Literacy** : 25.4 per cent. 5.4 per cent of the whole India population and area 6.5 per cent of the whole of India. (See "Population" article for more details.)

Capital : Bangalore.

The State is divided into four Divisions for administrative purposes. There are 19 Districts, 174 Talukas, 231 towns and 26,377 inhabited villages.

AGRICULTURE

Out of the total geographical area of about 19,201 hectares, 2,692 hectares are covered by forest, 848 hectares are put to non-agricultural use, 910 hectares are barren and uncultivable land, 1,726 hectares are pasture and grazing lands, 364 hectares are miscellaneous tree

crops and groves and 618 hectares are cultivable waste lands.

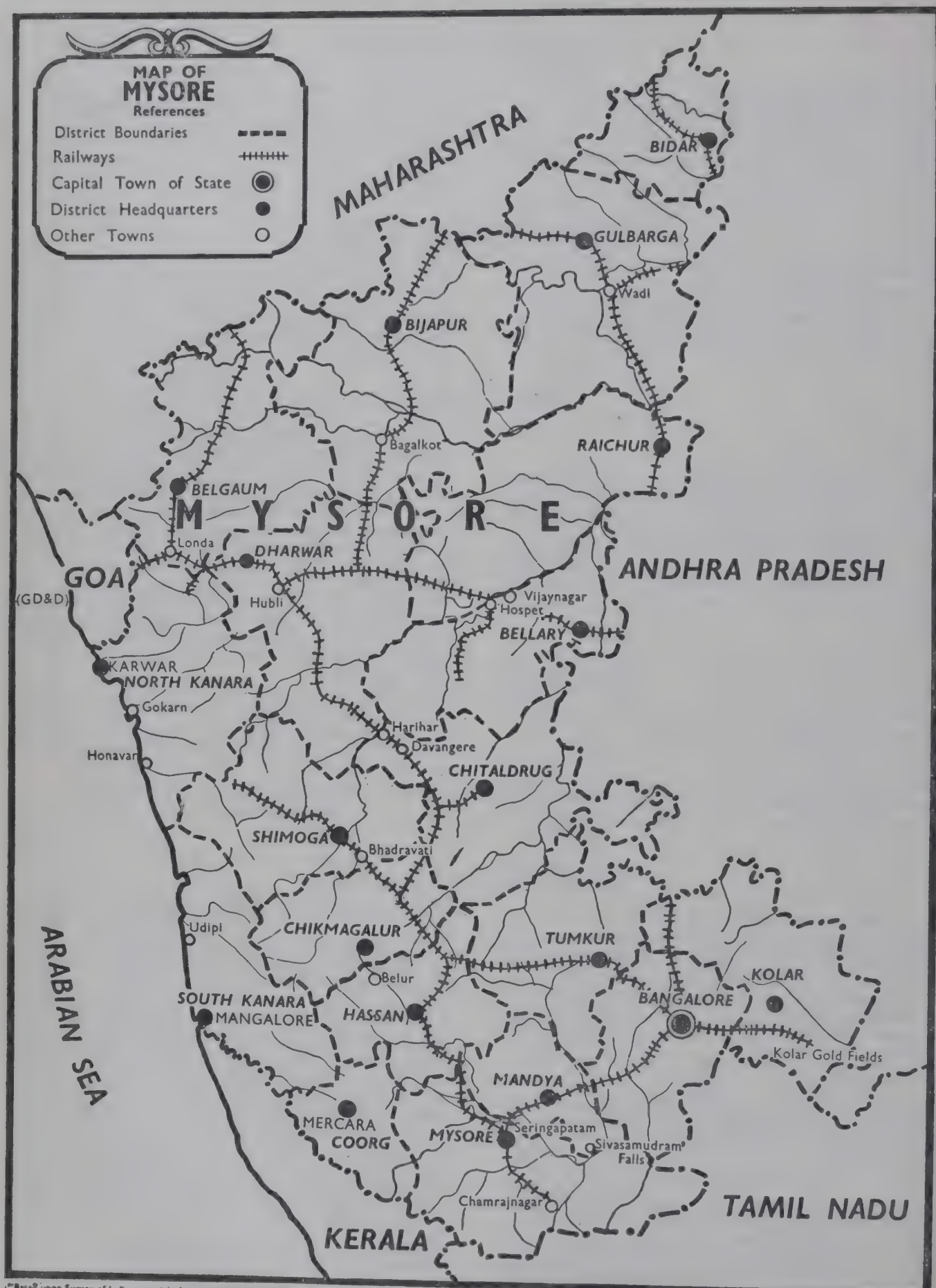
The important cereal crops that are grown in the State are rice, jowar, ragi, bajra and wheat. Important cash crops include coffee, cotton, tobacco, oilseeds, sugarcane, arecanut, coconut, cashewnut and castor. Among the States, Mysore ranks first in respect of the production of coffee, ragi and cardamom. Improved and "package" agricultural practices have come into vogue, particularly in Mandya. Lately, hybrid maize, jowar and high yielding rice and ragi have been introduced.

Estimated production in lakh tons of important agricultural commodities in 1966-67; Rice 14.78; Jowar 12.74; Ragi 5.06; Cereals 35.07; Pulses 3.50; Groundnut 5.16; Sugarcane 64.18; Cotton (thousand bales of 180 kgs.) 265; Average foodgrain output: 45 lakh tons.

Areas in percentage to total area under crops : Rice 12; Jowar 35.7; Wheat 3.7.

Net area irrigated by : Tanks 3,80,000 acres; wells 1,73,000 acres; Other sources 1,34,000 acres.

* For area and population of the districts see main article *Population*.



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Soils : Laterite and lateritic soils, red loams, red sandy loams, black soils and alluvial soils.

Agricultural Education : Agricultural Research Stations 45, Agricultural University 1; Agricultural Colleges 2; Agricultural Schools 7; Gramsevak Training Centres 5; and Seed Farms 100.

Vegetables and Fruits : The area under vegetables was increased during the Third Plan period from 1,40,000 acres to 1,55,000 acres.

Horticulture : The annual output of the various nurseries will be 4 lakh fruit plants. A master plan costing Rs. 10 lakhs has been prepared for the development of horticulture. In execution the plan encourages intensive vegetable and quick growing fruits in Bangalore and Mysore.

Cash Crops : Out of a total cultivated area of 280.8 lakh acres, nearly 64.3 lakh acres are under cash crops and out of a total agricultural income of Rs. 587 crores (1964-65) generated in the State, Rs. 120 crores are by cash crops. They form an important part also of the State's foreign export trade.

Cashew : An area of about 90,000 acres is under cashew in the private sector. The Forest Department has brought 10,000 acres under cashew cultivation.

Cardamom : Cardamom occupies an estimated area of about 49,000 acres. The estimated production is about 1,000 tons which is nearly 45 per cent of the national production.

Tobacco : Tobacco is cultivated in an area of about 1 lakh acres and the annual estimated production is about 25,000 tons.

Sugarcane : Sugarcane occupies an area of about 1.5 lakh acres in Mysore producing about 4,12,500 tons of gur.

Areca nut : The production is about 25,000 tons of nut which is nearly 27 per cent of the annual production in India.

Rubber : Plantations extend over 2,000 acres, cinchona plantations over 44 acres and eucalyptus over 20,125 acres.

Animal Husbandry (1966), (Figures in thousand): Cattle 13,129; Buffaloes 4,206; Sheep 8,805; Goats 10,561; Horses and ponies 63; Other livestock 936; Poultry 876.

The State has a network of about 600 Veterinary Institutions comprising 19 District Hospitals, 174 Taluk Dispensaries and 400 Rural Veterinary Dispensaries. The Mysore Serum Institute produces biologicals to combat and prevent contagious diseases among livestock. Two Clinical Laboratories—one at Belgaum and the other at Mangalore—are also functioning.

Bangalore Dairy Project : Aided by UNICEF, this is designed to handle 50,000 litres of milk with provision to expand the capacity to 1,50,000 litres. At present it supplies 20,000 litres to Bangalore City.

COMMUNITY DEVELOPMENT

The Community Development Programme now covers the entire rural Mysore. On Jan. 1, 1968, there were 268 delimited blocks. Of them were 122 Stage I blocks, 87 Stage II blocks and 50 Post-Stage II blocks. The population covered by these blocks was 217 lakhs in 26,400 villages.

The three-tier system of Panchayat Raj institution is being set up in the State. There are 7,450 panchayats and 174 taluk boards. At present (Nov. 1968) there are 20 District Development Councils. These advisory bodies will be replaced by elected Zilla Parishads.

The Programme of Applied Nutrition, implemented in collaboration with UNICEF, FAO and WHO is in operation in 11 blocks.

FOREST

Area : 13,575 sq. miles (18.4 per cent of the State area).

Timber is the main forest produce. Next in importance are sandalwood and bamboo.

Classifications and area : Wet evergreen and Semi-evergreen 1,315 sq. miles; Moist Deciduous 843 sq. miles; Dry Deciduous 3,020 sq. miles; Dry Thorn 8,397 sq. miles.

Species	Plantations raised as at the end of Third Plan
	(Acres)
Teak	1,61,512
Fuel and Miscellaneous species ..	2,44,687
Soft Woods	20,207
Cashew	24,797
Rubber	797
Linaloe	1,165
TOTAL	4,53,165

Net revenue from forests in 1967-68 was about Rs. 11 crores.

IRRIGATION

Percentage of irrigated area to the total crop area : 10.

The number of wells sanctioned so far total 50,000.

Tungabhadra Project

One of the important irrigation projects is Tungabhadra Project. The left bank canal has a gross command area of 10,80,000 acres, the right bank low level canal 8,60,000 acres, the right bank high level canal 5,00,000 acres. The expected expenditure on these canals by the end of March 1969 was Rs. 3,454.61 lakhs, leaving a spillover of Rs. 1,248.39 lakhs. The potential created as on June 1968 under the left and right bank canals was 5,27,547 acres and 91,433 acres respectively.

This is a joint project of Andhra Pradesh and Mysore costing Rs. 50 crores for irrigation portion. The ultimate irrigation potential for the project is 8.2 lakh acres.

The project is expected to be completed in the Fourth Plan. (For more details see under main article on Irrigation.)

Irrigation potential created and utilised (1968) in acres: Tungabhadra (left bank) 5,38,437—4,10,083; Tungabhadra (right bank) 92,353—74,297; Bhadra 2,04,900—1,64,684; Ghataprabha 95,398—48,154.

Fourth Plan : As many as ten major irrigation projects and 26 medium projects taken up during the preceding plans period will have to be carried out during the Fourth Plan. The amount required for completing the works taken up during the preceding plans would be of the order of Rs. 188.46 crores.

The important projects that will be taken up for construction during the Fourth Plan are : (1) The Tungabhadra Project High Level Canal—Stage II, (2) The Ghataprabha Project Stage III, (3) The Tunga Reservoir Project, (4) The Upper Tungabhadra Project, (5) The Yagachi Reservoir Project and (6) The Karanja Project.

The total cost of the projects to be taken up in the Fourth Plan will work to Rs. 142.98 crores.

New Irrigation Projects: Preliminary work on Upper Krishna and Malaprabha Projects has started. It is proposed to start preliminary works in respect of Chandram-palli Project in Gulbarga District and of Harangi and Hemavathi Projects in Coorg and Hassan Districts, respectively.

IRRIGATION PROJECTS—MAJOR AND MEDIUM

The State has excellent potential for development of major and medium irrigation which is estimated to be in the order of 78.2 lakh acres. Three major projects and eight medium projects were taken up for construction in the First Plan. During Second Plan period three major

projects and eleven medium projects were taken up for construction and during Third Plan period four major projects and seven medium projects were taken up for construction.

Thus at the end of the Third Five Year Plan, 36 major and medium irrigation projects were taken up at an estimated cost of Rs. 27,049.52 lakhs for construction. These projects have total Ayacut of 25,98,068 acres on full development and the total potential created at the end of Third Plan period was of the order of 9,03,167 acres and the actual utilisation was 6,88,368 acres.

The following statement gives the financial and physical achievements of some of the Major and Medium Irrigation projects in the State.

Major and Medium Irrigation Projects

Name of the Project.	Location.	When started.	When to be completed.	Area to be irrigated in Acres.	Total cost in Lakhs.	Estimated rise in output of food-grains after completion in Tons.
Hathikoni	Near Hathikoni Village, Gulbarga Dist.	1959	1970-71	5,300	57.84	800
Dharma Project ..	Near Yamagalali Mudgad Taluk, N. K. Dist.	1958	1970-71	3,200	95.48	2,400
Hebbahalla	Near H. D. Kote, Mysore Dist.	1958-59	End of IV Plan.	1,570	58.00	325
Lakshmanathirtha Project.	Coorg Dist.	1958	1969-70	7,000	161.61	1,400
Kanakanala	Mahapur village, Raichur Dist.	1960	End of III Plan.	5,100	75.00	750
Harangi Project ..	Near Hardur, Frazerpet Taluk, Coorg Dist.	Not started	Spillover to V Plan.	81,000	1,105.84	16,200
Upper Krishna Project*	Between villages of Narayanapur, Shorapur Taluk of Gulbarga Dist.	—	—do.—	6,00,000	5,820.00	1,20,000
	2) Almatti Dam, Bijapur Dist.	—	—	—	—	—
Malaprabha Project ..	Belgaum Dist.	1960-61	1970-71	3,00,000	2,000.00	40,000
Hemvathi	Near Gorur, Hassan Dist.	—	Spillover to V Plan.	33,000	390.00	6,600
Kambadakada	At Kambadakada village in Coorg Dist.	—	—do.—	22,500	190.00	4,500
Harinala	—	1961-62	1969-70	10,750	83.41	1,800

* Work at Narayanapur has been suspended in preference to a site at Siddapur which has again been taken up.

CO-OPERATION

The structure of co-operative credit in the State consists of three tiers: the primary, the intermediate and the apex. At the apex level, there is the Mysore State Co-operative Apex Bank which has been reconstituted as a federal body and whose jurisdiction is extended to the whole of the State. The Central Land Mortgage Bank has been reorganised and reconstituted with the entire State as its jurisdiction.

There are 19,000 Co-operative Societies with a membership of 50 lakhs. Their total working capital is Rs. 20 lakhs.

Number of Agricultural Credit Societies: 8,800; Number of District Co-operative Banks: 19; Number of Land Development Banks: 155; Number of Primary Marketing Societies: 245; Number of Housing Co-operative Societies: 639; Number of Coir Co-operative Societies: 25. No. of regulated markets: 200.

Co-operative Sugar Factories

Nine Co-operative Sugar Factories are in existence in the State of which 4 have gone into production and 5 have secured industrial licence.

Co-operative Farming

There are 310 farming societies with a membership of 8,597 and paid-up share capital of Rs. 10.09 lakhs, commanding an area of 52,869 acres.

Consumers' Co-operatives

There are at present 15 wholesale stores and 780 primary stores with an aggregate membership of 80,000 and share capital of Rs. 60 lakhs.

The Third Plan brought about sixty per cent of the agricultural population under the co-operative fold. Two thousand more service co-operatives, 50 primary land mortgage banks, 44 processing units and 900 godowns were started and 160 marketing societies organised.

ELECTRIC POWER

Hydro-Electric Projects completed recently

Name of Project.	Location.	Commencement.	Completion.	Installed capacity.	Cost in crores of Rs.
Sharavathi Valley Project ..	15 miles from Talaguppa Rly. Station near Jog (Linganamakhi).	1956	1965 (I Stage)	356,400 Kw.(a)	56 (Revised) (I Stage)
Bhadra Hydro-Electric Project.	18 miles from Bhadravathi (Lakkavalli).	1956	1962	33,200 Kw.(b)	3.8
Tungabhadra Hydro-Electric Project Right Bank.	4 miles from Hospet Rly. Station.	1953	1962	72,000 Kw.(c)	1.44 (Mysore's share)
Tungabhadra Hydro-Electric Project Left Bank.	3 miles from Munirabad Rly. Station (Mallapuram).	1955	1961	27,000 Kw.(d)	6.042

Estimated rise in output after completion is about 1,466 million units over the 1956-57 figures. (a) 891,000 Kw. ultimate capacity. (b) 40,400 Kw. ultimate capacity. (c) This is a joint venture of Andhra Pradesh and Mysore. Mysore's share is 14,400 Kws. (20 per cent of the generated power.) Two units of 9,000 Kw. installed and two more units being installed at the dam and canal power house. (d) Ultimate capacity 36,000 Kw.

Names of power stations (besides the ones completed recently) in operation, their location and installed capacity :

Name	Installed capacity (Kw.)	Location
Sivasamudram	42,000	28 miles from Maddur Rly. Stn. towards South East.
Shimshapura	17,200	28 miles from Maddur Rly. Stn. towards South East.
Jog (M.G.H.E. Works) ..	120,000	12½ miles from Talaguppa Rly. Stn. towards North.

Villages electrified :—Out of 26,608 towns and villages, 6,000 have been electrified till the end of 1966.

No. of irrigation pumps serviced : 23,600.

Diesel Stations showing within brackets the approximate installed capacity in Kw. and units generated in millions in 1967 respectively: Mercara (414; 0.705); Somwarpet (150; 0.146); Virajpet (240; 0.242); Shorapur (100; 0.065); Gourikoppal (80; 0.111); Raichur (1,240; 2.916); Gulbarga (826; 1.944); Yadgir (400; 0.537); Bailhongal (200; 0.197); Guledgud (567; 1.027); Hukeri (500; 0.975); Ilkar (200; 0.322); Chittapur (50; 0.047); Humnabad (200; 0.055); Aland (100; 0.015); Kushtagi (50; 0.001).

The following are some of the other diesel stations with the installed capacity in Kw. :—Udipi 110 Kw; Karkala 32 Kw; Mangalore 1,017 Kw.

POWER

The generating capacity increased from 186 MW to 446 MW in the Third Plan and is expected to be 967 MW in the Fourth Plan.

Sharavathi Valley Project :—The Sharavathi Valley Project now under execution is the biggest and one of the most economical projects in the State and one of the few

economical projects in India. The River Sharavathi though only 82 miles in length has a tremendous power potential amounting to about one million kilo watts. This project is being executed, four generating units each of a capacity 89,100 Kw. are functioning and six more are proposed.

Bhadra Hydro-Electric Project :—The Bhadra Hydro-Electric Project is mainly an irrigation project and the power generation here is only incidental. The installed capacity of this station is 33,200 KW comprising 2 units of 12,000 KW each in the river bed station, one unit of 2,000 KW in the left bank station and one unit of 7,200 KW in the right bank station.

Tungabhadra Hydro-Electric Project (Left Bank) :—This project contemplates installation of 3 units each of 9,000 KW and transmission of power by means of 110 KV transmission line from Munirabad to Shahabad. All three units of 9,000 KW each have been commissioned.

Kalinadi Hydro-Electric Project :—Provisions have been made for carrying out the preliminary works on the Kalinadi scheme during the IV Plan period. This project is to produce more than a million Kw of power.

Mysore State Electricity Board :—*III Five Year Plan* : The Third Five Year Plan of the Mysore State Electricity Board was a further projection of the Second Plan Schemes viz., Extension of Main and Sub-transmission lines, erection of step down stations, extension of power supply to villages and power supply to Irrigation Pumpsets etc. to distribute the power to various parts of the State from the Power Projects like Bhadra, Munirabad and Sharavathi Valley Project. The total provision for the Third Plan Projects of the Board under the head "Power" was Rs. 2,067.98 lakhs besides a provision of Rs. 1,075 lakhs for power supply to Irrigation Pumpsets under 'Minor Irrigation'. It is proposed in the Fourth Plan to construct 4,125 KW of transmission lines and sub transmission lines, erect 94 sub-stations, electrify 5,000 villages and supply power to one lakh irrigation pumpsets. The outlay for these works will be Rs. 6,200 lakhs.

Besides meeting its own demand, Mysore is now in a position to supply power to neighbouring States — Andhra Pradesh, Tamil Nadu, Kerala and Goa—on a temporary basis. Mysore has also offered power to Maharashtra.

INDUSTRIES

Production in some of the important industries 1966-67:—

Industry	Unit	1966-67
Pig Iron and Ferro alloys ..	M. Tons	90,000
Semifinished ingot steels ..	"	100,000
Finished Steel ..	"	46,000
Sugar ..	"	50,000
Paper ..	"	51,000
Cement ..	'000 "	900
Sandalwood ..	'2000 kgs.	98.3

Main large-scale industries in the State with location: Textiles (Bangalore, Devangere, Bellary, Mysore, Hubli, Gadag, Gokak, Gulbarga); Engineering (Bangalore, Harihar); Mineral and Metal (Bangalore, Bhadravati, Bellary, Kolar, Shimoga); Food, drink and tobacco (Bangalore); Chemicals, dyes, etc. (Bangalore, Mysore); Paper and printing (Bhadravati, Nanjangud, Dandeli, Mandya and Bangalore); Process relating to wood, stone and glass (all over the State); Process connected with hides and skins (Bangalore); Gins and presses (Devangere, Belgaum, Bellary, Dharwar, Gulbarga & Raichur); Fisheries (Mangalore, Karwar).

State Govt. Industrial Undertakings: Central Industrial Workshop, Bangalore; Govt. Central Workshop, Mercara; Govt. Electric Factory, Bangalore; Jai Hind Saw Mills, Dandoli; Mysore Implements Factory, Hassan; Govt. Porcelain Factory, Bangalore; Govt. Soap Factory, Bangalore; Govt. Sandalwood Factory, Mysore and Shimoga; Govt. Spun Silk Mills, Chennapatna; Govt. Silk Weaving Factory, Chennapatna; Mysore Silk Filature, Kanakapura, Kollegal and Mysore; Mysore Chrome Tanning Co., Bangalore; Hutti Gold Mines, Hutti; Mysore Lac and Paint Works Ltd., Mysore; Radio and Electric Manufacturing Co. Ltd., Bangalore; Mysore Sugar Co., Mandya. New Govt. Electric Factory Ltd., Bangalore.

Central Govt. Undertakings: Bharat Earth Movers Ltd., Bangalore; Bharat Electronics Ltd., Bangalore; Hindustan Machine Tools Ltd., Bangalore; Kolar Gold Mining Undertakings, Kolar Gold Fields; Hindustan Aeronautics Ltd., Bangalore; Indian Telephone Industries Ltd., Bangalore.

Private Limited Companies owned by Government: Mysore Iron and Steel Ltd., Bhadravati, Mysore State Industrial Investment and Development Corporation Ltd., Bangalore, Mysore State Handicrafts Development Corporation Ltd., Bangalore.

Inter-State Govt. Undertakings: Tungabhadra Steel Products Ltd., Tungabhadra Dam.

No. of Registered Factories (approximate) 700; Productive capital (Rs. lakhs) 25,000; No. of persons employed two lakhs; Gross output (Rs. lakhs) 23,000.

A watch factory set up at Bangalore in the public sector (as an adjunct to Hindustan Machine Tools) is designed to manufacture about half a million full lever watches annually. The Bangalore factory has the collaboration of the Japanese firm, Citizen Watch Company.

No. of Industrial Estates, 8. (Bangalore, Ramanagaram, Mysore, Hubli, Harihar, Belgaum, Gulbarga and Mangalore.)

No. of Sugar factories: 9; No. of Paper factories: 4; No. of Cement factories: 4; No. of textile and allied mills: 39.

A letter of intent has been granted to Indian Aluminium Co., Calcutta, to set up a plant to manufacture aluminium ingots near Belgaum with an initial capacity of 30,000 tonnes per annum. A fertilizer plant in the private sector at Mangalore is in the offing.

LABOUR

Labour Welfare Centres: Ten Labour Welfare Centres are functioning in various parts of the State to extend labour welfare activities and provide recreation to the workers.

Banking Facilities to the Industrial Workers: With a view to affording relief to the industrial workers indebted to money-lenders, a scheme to provide credit facilities at reasonable rates of interest on co-operative basis was taken up and it is now under the charge of a co-operative officer deputed by the Co-operative Department.

Apprenticeship Act: Under this scheme 2,000 candidates were receiving training in 1968.

Employment Exchanges: No. of employment exchanges: 20; No. of registration 2 lakhs; No. of Craft training Centres: 15; No. of students passed: 1,500 (1967).

There is a special employment exchange at Bangalore for the physically handicapped and another to serve the needs of University students/graduates.

Factories and Boilers: There are 3,000 factories on the registers of the Department.

The Employees' State Insurance Scheme: The Scheme is now in force in Mysore, Mangalore, Hubli, Gulbarga, Davangere, Gokak, Dandeli and Belgaum. The total number of beneficiaries so far is over 200,000 family units.

The Rural Manpower Utilisation Works: The main schemes undertaken in this programme are Minor Irrigation, Soil Conservation, Afforestation, Development, Repairs to Field Channels and Road Works.

HOUSING

Achievements of the Mysore Housing Board in the Third Plan:

Amount drawn: Rs. 80.00 lakhs; Number of houses built (General): 1,922.

Low Income Group Housing: Amount drawn: Rs. 300.00 lakhs; No. of houses built: 4,135.

Subsidised Rental Housing: Provision: Rs. 31 lakhs; No. of houses built: 314.

Middle Income Group Housing: Amount drawn: Rs. 148 lakhs; No. of houses built: 694.

The Mysore State Housing Corporation with a membership of 128 and paid-up share capital of Rs. 6.6 lakhs functions as the apex housing institution. No. of housing co-operatives: 589.

SMALL-SCALE INDUSTRIES

Important cottage industries showing their centres in Mysore State within brackets: Lacquerware (Chennapatna, Gokak, Nelamangala, Chikmagalur and Shimoga); Sandalwood carving (Sagar, Sorab, Mysore); Ivory and Inlay works (Sagar, Sorab, Mysore); Brass works (Nelamangala); Rattan work (Mysore, Chikmagalur, Shimoga and Sagar); Bidriware (Bidar); Glass Bangle making (Yeshwantpur and Ghodgeri); Mat weaving (Kengeri, Amruthur, Nagamangala, Hassan, Kumbalur, Anandapuram and Hiriur); Leather stitching (Birur, Sagar, Doddasiddavanahally, Indi, Ramdurg, Ashani, Sandatti and Karwar); Pottery (Ramanagaram, Khanapur, Madikebeedu and Krishnarajapura); Tile-making (Mangalore);

Coir Industry (Mangalore, Karwar); Agarbatti (Mysore, Bangalore); Cotton Hosiery (Shahapur).

The important centres for small-scale industries are Bangalore, Belgaum, Tumkur, Hubli, Hospet, Bhadravati and Mangalore. Among the important products that have got all-India market, the following are noteworthy: Cycle Dynamo Lamps; Centre lathes; Wood working machinery; Punch presses; Ornamental lamps; Charcoal Irons; Pooja articles of non-ferrous metals. Apart from the above, the State also produces oil-engines, pressed-metalware and components for large-scale industries located in the State.

MINERALS

Production (1967): Gold: 4,000 kgs.; Silver: 300 kgs.; Iron ore: 35,00,000 tonnes; Manganese: 7,000 tonnes; Limestone: 15,00,000 tonnes; Quartz and Silica: 50,000 tonnes; Total value of mineral production: Rs. 700 lakhs.

Total number of men employed: About 45,000.

Number of men employed in each mineral industry: Gold (30,000); Other minerals (15,000).

The following minerals have been located and their reserves assessed:—

(1) *Iron ore*.—Iron ore deposits estimated at about 500 million tons of exportable grade have been proved in the Bababudan Hill, Chikmagalur District; near Kodachadri and Kotebore, Shimoga District; near Kalche, Kodalgadde, Sunksal, etc., North Kanara District; near Karekurchi, Habbigegudda, Janehar, Tumkur District and Vajra, Lakkihalli Bheemasamudra, etc., Chitradurga District. This is in addition to the ore reserves in the Bellary-Hospet area, where a reserve of about 1,000 million tons is assessed. The latest discovery of magnetic ore, estimated at 1,000 million tons, is at Kudremukh.

(2) *High Calcium Limestone*.—Occurring between Bagalkot and Yadwad, Bijapur-Belgaum Districts have been mapped in detail and some of them have also been prospected by drilling. So far about 600 million tons of limestone are assessed. Further prospecting is under progress. The high calcium limestone deposits near Nagargali, North Kanara District and those in Hosadurga Taluk, Chitradurga District, were also mapped in detail and the reserves are assessed at 30 million tons and 50 million tons, respectively.

(3) *Fuller's Earth*.—Fuller's Earth deposits suitable for refining of mineral and vegetable oils occurring near Korvi and other villages, Chincholi Taluk, Gulbarga District, have been prospected and estimated to contain about 2 million tons.

(4) *Bauxite*.—The surveys conducted for Bauxite deposits in Belgaum District have revealed the occurrence of about 2 million tons of Bauxite.

Board of Mineral Development—Besides export of Iron Ore and Manganese Ore, the Board deals with the mining and sale within India of commodities like Chrome Ore, Clay, Graphite, Quartz, Feldspar, Soapstone, etc. The export is at present restricted to Iron Ore and Manganese Ore. The production of iron ore by the Board of two lakh tonnes is expected to go up to one million tonnes by 1970-71. The activities of the Board will be taken over by a Mineral Development Corporation.

PUBLIC HEALTH

Mysore State has 200 hospitals, with 20,000 beds, 800 dispensaries, 6,000 registered doctors, 1,700 registered nurses, 1,750 midwives, 450 primary health units, 19 national malaria eradication programme units, one national filaria control unit, 10 subsidiary leprosy units, 12 district medical laboratories and 300 family planning centres.

Ayurvedic hospitals 8, Ayurvedic dispensaries 500; Unani dispensaries 71 and Homeopathic dispensaries 10.

Some of the important schemes carried out:—National Malaria Eradication Programme; National Filaria Control Programme; National Smallpox Eradication Programme; Leprosy Control Programme; The B.C.G. Vaccination Scheme.

Medical Education:—At the commencement of the Third Plan, the total admission capacity of the four Medical Colleges in the State was 640, which has since been raised to 1,220 by providing 140 additional seats in existing colleges, and 440 seats in four new Medical Colleges. There are 4 Govt. Medical Colleges and 5 Private Medical Colleges. Post-graduate courses in various branches of medical science have been opened.

A Logopaedic Institute is proposed to be started in Mysore.

The Dental College of the State has an admission capacity of 30 students.

Laboratories: The Public Health Laboratory at Bangalore has been up-graded and 12 District Laboratories have been established in the Districts. The Vaccine Institutes at Bangalore and Belgaum have been expanded to cope with the increasing demand for smallpox vaccine.

EDUCATION

Compulsory education for the age-group 6-7 was introduced during 1961-62 and for the age-group 7-8 in 1962-63.

Secondary education in all Government and Govt. aided institutions has been made totally free from 1966-67. It is estimated that nearly five lakh pupils are covered by the scheme.

There are four universities in Mysore State: (1) Bangalore University, Bangalore; (2) Mysore University, Mysore; (3) Karnatak University, Dharwar; (4) Agricultural University, Hebbal, Bangalore. Besides, the Indian Institute of Science, an institute for advanced engineering sciences, enjoys University Status.

Colleges: Technical Colleges 49; Medical Colleges 11; Law Colleges 12; Commerce Colleges 7; Agricultural Colleges 2; Veterinary College 1; Polytechnics 27; Teachers Training Colleges 19. Arts and Science Colleges 95.

Secondary Schools 1,500; Primary Schools 32,000; Nursery Schools 500; Teachers 18,000.

There are about 34,000 schools having 45 lakhs students. The teacher-student ratio is 1: 38.

A regional college of education (Mysore) and a regional college of engineering (Surathkal) have been established. Among advanced training and research institutions are: All India Mental Health Institute (Bangalore), Gas Turbine Research Establishment (Bangalore); National Aeronautical Laboratory (Bangalore) and National Tuberculosis Institute, Bangalore.

Four Youth Vocational Training Centres have been established during 1964-65 under Central Govt. scheme aided by UNICEF. This scheme will impart vocational training to students who do not continue high school education after the VIIIth standard.

Hindi Education: The Third Plan saw the establishment of 3 Hindi Shikshak Training Colleges in the State. 4,375 Hindi Teachers' posts have been sanctioned for teaching of Hindi as a compulsory subject in senior primary schools. 240 Hindi teachers for high schools have also been sanctioned.

A Sainik school was established at Bijapur and another at Kushalnagar has been proposed.

MYSORE STATE ROAD TRANSPORT CORPORATION

Bangalore 1.

The Mysore State Road Transport Corporation has a fleet strength of 2,000 passenger vehicles and 120 departmental vehicles with a labour force of 15,000 strong. The Passenger Transport Services are operated on 1,600 routes covering a route mileage of 49,951 miles and catering to the transport needs of more than 5.27 lakh passengers every day all over the State. The Road Transport Operations of the Corporation are now spread over more than $\frac{2}{3}$ of the Mysore State.

Motor Vehicles: Stage carriers 5,000; Cars 20,000; Cabs 1,000; Goods vehicles 14,000; Motor cycles 17,000; others 9,000.

Bullock carts (1961 Census): 6,93,750.

COMMUNICATIONS

Total length of Railway: 2,800 kilometres; Broad gauge 483 kilometres; Metre gauge 2,163 kilometres; Narrow gauge 154 kilometres.

Length of roads 55,000 kms.

During the Third Plan, top priority had been given for the development of Mangalore and Karwar into all weather deep draft ports. The 123-mile Hassan-Mangalore rail link has also been included under the Central Sector of the Fourth Five-Year Plan. The 150-mile Bangalore-Salem rail link has been completed.

A 151-mile long West Coast road and ore carrying roads over a length of 379 miles are under execution.

Number of minor ports: 2; Coastline: 200 miles. Mangalore is being developed into a major port.

No. of airports: 3 (Bangalore, Belgaum and Mangalore); No. of airstrips: 4.

Post and Telegraphs: No. of Post offices 4,000; Telephone exchanges 300; Telephones 40,000; Radios 3,00,000; Telegraph offices 600.

TOURISM

No. of foreign tourists: 1963-64: 2,244; 1964-65: 2,768; 1965-66: 3,500; 1966-67: 4,000; 1967-68: 6,000.

FOURTH PLAN

(See main article)

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

UNIVERSITIES

BANGALORE UNIVERSITY

Bangalore 1.

Chancellor: G. S. Pathak, Governor of Mysore. *Vice-Chancellor:* Prof. V. K. Gokak, M.A. (Oxon). *Registrar:* P. Mallikarjunappa, M.Sc.

Estd.: 1964. 40 colleges located in the Bangalore City are under its jurisdiction. Jurisdiction of the University extends over the area comprising the Bangalore South Taluks of the Bangalore District but Colleges of Agriculture and Veterinary Sciences are excluded.

Total enrolment in the University and constituent colleges is 22,398, consisting of 15,534 men and 6,864 women. There are 1,166 teachers giving a Teacher-pupil ratio of 1:19.

The University provides facilities for training and research in the faculties of: (a) Humanities and Social Sciences, Education and Commerce, (b) Science, (c) Engineering and Technology, (d) Law, (e) Medicine.

There are 42 departments of study. Post-graduate facilities are available in Medicine, Surgery, Soil Mechanics and Foundation Engineering, Structural Engineering, Machine Design, Home Science, Chemistry, Education, Physics, Mathematics, Botany, Zoology, Geology, English, Kannada, Economics, Sociology and Law (Jurisprudence and Contracts).

Five-Year integrated course in Architecture and Post-Graduate Diploma Courses in different branches of specialisation in Medicine have been introduced from 1967-68.

Undergraduate training is available at Pass level in all subjects and Honours level in some subjects.

KARNATAK UNIVERSITY

Dharwar 3.

Established in Aug. 1949 — Incorporated on 1st March 1950. A teaching and affiliating University having jurisdiction over the districts of Belgaum, Bellary, Bidar, Bijapur, Dharwar, Gulbarga, North Kanara and Raichur in Mysore State.

Medium of Examination is English; Teaching departments 23; Affiliated Colleges 76; Recognised Institutions, nil; Constituent Colleges 4.

Chancellor, G. S. Pathak, Governor of Mysore; *Vice-Chancellor,* Dr. A. S. Adke; *Registrar,* S. S. Wodeyar, M.A., LL.B.

Total number of students (1966-67): 33,335; (1967-68): 39,914.

BUDGET — 1967-68 (ESTIMATES)

Income (including Govt. Grant) Rs. 1,02,28,684; Expenditure Rs. 1,08,41,331; State Govt. Grant Rs. 40,18,193.

UNIVERSITY OF AGRICULTURAL SCIENCES

XI Main, 16th Cross Road, Malleswaram, Bangalore-3.

Chancellor: G. S. Pathak, Governor of Mysore; *Vice-Chancellor:* Dr. K. C. Naik, B.A., M.Sc., Ph.D. (Bristol); *Registrar:* R. Krishnappa, M.A.

It is a residential University, with constituent colleges responsible for resident teaching, research and extension education throughout the State of Mysore.

Estimates (1968-69) (Revised) Government Grant: Rs. 2,36,35,000, Government of India Grant: Rs. 1,72,21,000, Other sources Rs. 70,47,500, Opening balance Rs. 16,488, Total Revenue Rs. 4,79,19,988, Expenditure Rs. 4,74,56,000, Closing balance Rs. 4,63,988.

UNIVERSITY OF MYSORE

Karya Soudha, Crawford Hall, P. B. No. 14, Mysore.

Chancellor: G. S. Pathak, Governor of Mysore; *Pro-Chancellor:* K. V. Shankara Gowda, Minister for Education; *Vice-Chancellor:* Dr. K. L. Shrimali; *Registrar:* B. S. Srikantaiah.

This is a teaching and affiliating University; No. of University Colleges: 4; No. of affiliated colleges: 67; Total No. of students during 1965-66: 42,022.

Budget Estimates (1967-68): Opening Balance, Rs. 11,88,863; Govt. Grant Rs. 52,00,000; University Grants Commission Rs. 15,24,000; University Fee etc. Rs. 37,30,500; Total Revenue Rs. 1,16,43,363; Expenditure Rs. 1,15,39,180; Closing Balance Rs. 1,04,183.

NAGALAND

HEADQUARTERS: Kohima.

Area: 6,366 sq. miles.

Population: 369,200 (1961 Census).

Administrative Districts with headquarters shown within brackets: Kohima (Kohima); Mokokchung (Mokokchung); Tuensang (Tuensang).

There are 828 villages.

The economy of the state is mainly dependent on agriculture. Revenue is derived from house tax and forest produce like bamboo, cane, timber, thatch and 'Agar'.

The deficit in food production at the beginning of the 3rd Five Year Plan was estimated at 5,400 tons, the major crop being rice which accounts for 80 per cent of the total output of food. In the villages people depend mostly on their own cottage industry for cloth. Yarn is made locally though it is also imported. Towns now import mill cloth.

The main tribes in the Area are : Angami, Sema, Lhota, Ao, Rengma, Chakhesang, Sangtam, Konyak, Chang, Phom, Yimchunger, Khiamnungan, Zeliang-Kiki and Kachari.

DEVELOPMENT PROGRAMME IN THIRD PLAN

An outlay of Rs. 7.25 crores had been approved for the 3rd Five Year Plan subject to the increase in allocations from year to year based on the actual performance. By the end of the financial year 1965-66 the actual expenditure under the Plan scheme came to Rs. 1,080.57 lakhs.

Under agricultural production scheme the total foodgrains production was brought to 63,000 tonnes by the end of 1965-66. The anticipated foodgrains production by 1968-69 is 66,000 tonnes.

Forests are the main source of revenue in Nagaland. By the end of 1964-65 the out-turns of timber, timber poles and firewood were 7,45,008 cft., 6,481 nos. and 2,96,500 cft. respectively. The annual revenue during the year was Rs. 12,98,000.

Roads: National Highway (from Dimapur to Mao) 64 miles; Jeepable roads, 1,415 miles; Mule path and Bridle tracks 475 miles; Fair weather motorable road 1,373 miles; Metalled road 95 miles. In 1965-66 a sum of Rs. 143.96 lakhs was spent on roads.

Transport: Nationalised Routes 358 kms. Passenger services 743 kms; Goods services 176 kms; Taxi services

215 kms; Town Bus Services 150 kms. The expenditure during the year was Rs. 22.17 lakhs. The State Transport Service was inaugurated on 26th January, 1965.

Education: No. of Government Primary Schools 920; Middle Schools 146 (121 Govt.), High Schools 33 (30 Govt.), Colleges four (two Govt.), Polytechnical School one; Teachers' Training Institutes three; Adult Literacy Centres 141.

No. of Students in : L. P. Schools 64,000; M. E. Schools 15,000; High Schools 6,000; Colleges 385.

Health: Hospitals 32; Dispensaries 80; B.C.G. Teams 3; Small pox Teams 2; Malaria Unit 1; Primary Health Centres 6; Beds 837.

All the villages in Nagaland have been covered by the Community Development Blocks.

Sufficient fund had also been provided for other schemes such as Animal Husbandry, Fishery, Co-operative, Power, Industries, Research and Cultural Programmes, Housing, Statistics, Information and Publicity.



ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

ORISSA

CAPITAL: Bhubaneswar.

Area: 60,172 sq. miles or 155,845 sq. kms.

Total Population: 17,548,846 (Males 8,770,586 and Females 8,778,260) (1961 Census). See article "Population" for more details.

Administrative Divisions: The State is divided into three Revenue Divisions, namely, Central Division (Hqrs. Cuttack), Northern Division (Hqrs. Sambalpur) and Southern Division (Hqrs. Berhampur). The following are the 13 Administrative Districts with names of district headquarters in brackets.

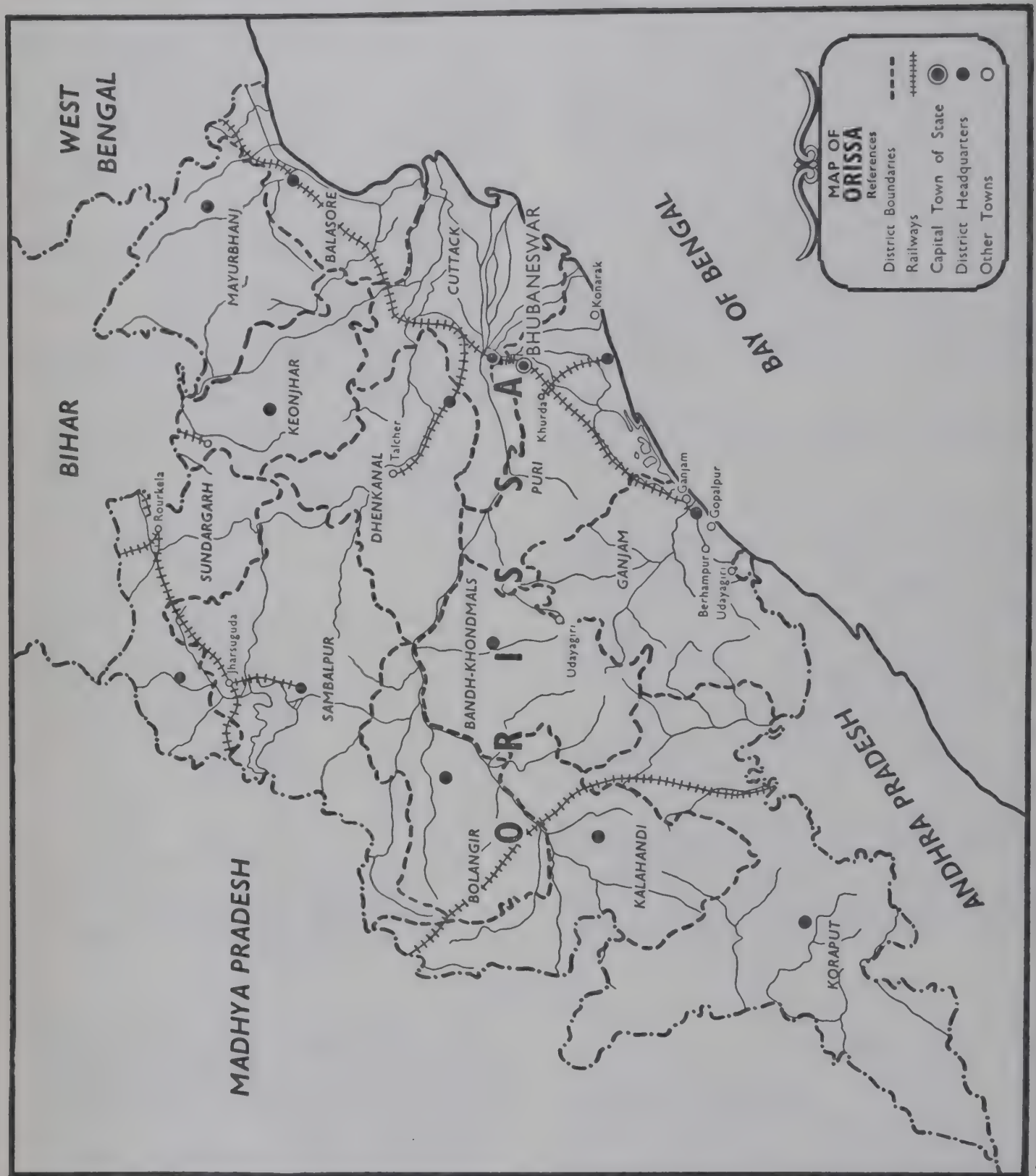
Cuttack (Cuttack); Puri (Puri); Dhenkanal (Dhenkanal); Phulbani (Phulbani); Balasore (Balasore); Sambalpur (Sambalpur); Ganjam (Chatrapur); Koraput (Koraput); Mayurbhanj (Baripada); Sundergarh (Sundergarh); Bolangir (Bolangir); Keonjhar (Keonjhar); Kalabandi (Bhawanipatna).

Number of Revenue Sub-Divisions: 52 (which are further divided into Tahsils).

Number of Municipalities: 19.

Number of Notified Area Councils: 44.

Number of villages: 52,125 (1961).



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Panchayat Samities—Grampanchayats: 3,831 (after the re-organisation in 1967); Number of Panchayat Samities: 314.

Panchayat Samiti was inaugurated throughout the State on Jan. 26, 1961. Under the reorganisation scheme in 1967, the Zilla Parishads at the top of the three-tier system were abolished.

LARGE-SCALE INDUSTRY

Main large-scale industries of State.

Textiles; Cement; Refrigerators; Paper; Glass; Sugar; Iron and Steel; Potteries; Spinning Mills; Tube Mill; Refractories and pipes; Ferro-manganese; Chlorine and Caustic Soda; Low Shaft Furnace; Structural Transmission Towers; Coil and Coil Products; Aluminium Ingots; Aluminium Cables; Steel Reinforced; Cast Iron Specials; Cast Iron spun pipes; Cast Iron Castings; Paper, Ferro-silicon and Ferro-chrome.

CHIEF INDUSTRIAL UNITS

Orissa Textile Mills, Chowdwar; Kalinga Tubes, Ltd., Chowdwar; Titaghar Paper Mills, Ltd., Chowdwar; Electrolux India, Ltd., Chowdwar; Kalinga Industries, Ltd., Cuttack (Factory at Chowdwar); Shree Durga Glass Works, Ltd., Baranga; Orissa Industries, Ltd., Baranga; National Foundry and Rolling Mills, Ltd., Cuttack; Patnaik Industries, Ltd., Bhubaneswar; Cement Concrete Products, Ltd., Bhubaneswar; Ferro-Chrome, Jeypore Road; Orient Paper Mills (P) Ltd., Brajarajnagar; Hindustan Aeronautics, Sunabeda; Indian Metals & Ferro-Alloys, Ltd., Tirubeli, Rayagada; Jeypore Sugar Co., Ltd., Rayagada; Straw Products, Ltd., (J. K. Paper Mills), Jaykeypore, Rayagada; Indian Aluminium Co., Ltd., Hirakud; Aluminium Industries, Ltd., Hirakud; Hira Cements (Industrial Dev. Corporation), Hirakud; Aska Cooperative Sugar Industries, Aska; Kalinga Iron Works, Ltd., (Industrial Dev. Corporation), Barbil; Tata Ferro-manganese Plant, Joda (Barbil); East Coast Salts & Chemicals, Ltd., (Industrial Dev. Corporation), Bhubaneswar (Factory at Ganjam); Jayshree Chemicals, Ltd., Ganjam; Orissa Cement Co., Ltd., Rajgangpur; Rourkela Steel Plant (HSL), Rourkela; Utkal Machinery, Ltd., Kansbahal; Refractory Plant, Rajgangpur, Belpahar Refractories Sambalpur; Orissa Ceramics, Jharusuguda.

SMALL & COTTAGE INDUSTRIES

Small & Cottage industries with their locations in brackets :—Biscuit & Confectionery (Cuttack, Berhampur, Rourkela); Steel products (Parlakhimedi & Cuttack); Salt (Ganjam, Puri & Cuttack); Fire Bricks (Rajgangpur, Baranga, Jharusuguda, Sambalpur); Foundry (Tapang, Berhampur, Dhanmandal, Cuttack, Bhubaneswar, Rourkela, Baripada, Sambalpur, Balasore); Woodwork (Cuttack, Bhubaneswar, Baripada, Jharusuguda); Tannery (Baud, Titlagarh); Footwear (Puri, Berhampur, Cuttack); Roofing Tiles (Cuttack, Puri, Ganjam and Sambalpur); Radio & Electricals (Cuttack, Rourkela); Glazed Porcelain (Baranga, Rourkela); Agricultural implements (Cuttack); Car Batteries (Cuttack); Cycle parts (Cuttack); Paints, Chemicals & Pharmaceuticals (Cuttack); Tin containers (Parlakhimedi, Cuttack); Sports Goods (Cuttack); Mathematical Instruments (Berhampur); Aluminium Utensils (Cuttack, Puri, Rourkela); Re-Rolling and Steel fabrications (Cuttack); Boats & launches (Cuttack); Buckets (Rourkela, Cuttack); Hard Boards (Cuttack); Filigree (Cuttack); Horn Works (Cuttack & Parlakhimedi); Handloom (Sambalpur and almost throughout the State); Eri and Tassar rearing (Sambalpur & Balangir). The State is famous for its Bell Metal and Brass works. Other cottage industries are: blacksmithy, coir products, soap and

phenyl, carpentry, pottery, wooden and sea-shell toys (Puri), stone carving (Puri), ivory etching, applique works, paddy husking. There are nearly two hundred rice mills and many hullers throughout the State.

Industrial Belts : I. (a) Rourkela-Bonai-Talcher-Cuttack-Paradeep; (b) Nayagarh-Tomka-Daitari-Paradeep; II. Rourkela - Rajgangpur - Jharusuguda - Balangir - Rayagada Koraput-Vishakhapatnam.

Industrial Policy

Loan assistance, land and power at concessional rates, waiving of Octroi duty and sales tax and guidance for preparation of project reports and obtaining of licences are some of the highlights of the policy.

MINERALS, METALS

Orissa's mineral potential is enormous. Her reserves of Iron Ore, Manganese Ore, Chromite, Limestone and Graphite are among the very best in India. The minerals which are worked in large quantities include besides those stated above, Coal, Dolomite, Galena, Fire clay and China Clay. Deposits of Bauxite, Vanadiferous Magnetite, Kyanite, Asbestos, Soapstone and Mica also occur in the State.

Location :—

Iron Ore :—Badampahar, Gorumahisani, Hatisikhli, Thakurani, Joda, Bolani, Sakradihi, Pipokri*, Gandhamaradan*, Jhiling, Tomka, Daitari* and Hirapur*. Total estimated reserves : Over 8,000 million tons.

Manganese Ore :—Thakurani, Joda, Bamebari, Gurda, Kalaparbati, Siljora, Dalpahar, Bhutura, Korra valley and Kuttinga. Total estimated reserves : over 20 million tons of all grades.

Chromite :—Baula—Nuasahi, Saraubil, Sukraugi, Bhimtangar, Kaliapani. Total estimated reserves : Around five million tons.

Coal :—Talchir (Deulbera, Dera, Talchir, S. Balanda) and Rampur (Hingir—Rampur and Orient collieries) are the two coal fields of the State producing non-coking coal. The reserves in those fields may be of the order of several thousand million tons.

Limestone :—Birmitrapur, Hatibari, Purnapani, Lanjhera, Dungri*, Umpavalle, Kottameta—Nandiveda*. The total reserves may exceed 500 million tons.

Dolomite :—Birmitrapur in Sundargarh district.

Graphite :—Sargipali, Matupali, Dharuakhaman, Bamuni, Sigjhan, Loitera, Densurgi, Tumudibandh, Majhibhelum, Kariguda and Athamalik.

China Clay :—Khola, Joshipur, Chanachbani and Jamkesar.

Fire Clay :—Belpahar, Talabira, Darlipali, Jaganath Prasad, Gopalpur* and Ratansara.

Bauxite :—Gandhamaradan Plateau, Kahipur Tiluk, Khariar, Karlapat plateaux. Total reserves : About two million tons.

Vanadiferous Magnetite :—Huasahi, Betai, Rangamatia, Betharan, Kumardubi, Hatichar, Kesam, Majurbeka.

Mineral exploitation :—The Orissa Mining Corporation—a State Govt. Undertaking—has the largest mechanized mining and ore-handling equipment. Messrs. TISCO, Bolani Mines, Ltd., the Hindustan Steel Mines are among the largest mechanized iron ore mines in the country.

PORTS

Major Port :—Paradeep (Cuttack District); with draft of 42, biggest in the country, it can receive bulk-carriers of 60,000 tonnes.

* Indicates occurrences which have not been worked.

Minor Ports :—Chandbali (Balasore District) and Gopalpur (Ganjam District).

See also main article "Ports" for details.

AGRICULTURE

Less than 15 per cent of the cropped area is irrigated. The latest position (1967-68) is as follows : the figures in brackets show the area sown in acres and the production in tonnes : Rice winter and autumn (98,74,000 ; 34,43,000) ; Wheat (34,200 ; 1,68,000) ; Other kharif cereals (5,24,000 ; 1,88,000) ; Kharif pulses (12,64,000 ; 1,06,000) ; Rabi cereals, other than wheat and rice (48,000 ; 24,000) ; Rabi pulses (20,34,000) ; 3,18,000) ; Kharif commercial crops, oilseeds, jute, etc. (4,93,000 acres) ; Rabi commercial crops, oilseeds, jute, etc. (5,86,000 acres) ; Oilseeds production (1,84,000 tons) ; Sugarcane (Gur) production (1,77,000 tons) ; Jute (2,84,000 bales of 400 lbs.).

During the period from 1966-67 to 1968-69, the Intensive Agricultural Area Programme (I.A.A.P.) has been introduced in 86 irrigated blocks of the State. The I.A.D.P. (the Intensive Agricultural Development Programme — previously called the Package Programme) covers 29 blocks in Sambalpur District.

LAND REFORMS

The important steps taken for agrarian reforms include : abolition of intermediaries (as many as 3,68,000 have been abolished out of a total of 4,20,000) under the Orissa Estates Abolition Act. The tenants now hold their tenancies under the Government. These rent-free estates have vested in the State. The bulk of the remaining 52,000 estates are Trust Estates or Religious Endowments. The compensation payable to the erst-while estate owners is Rs. 9.5 crores. The system of collection of rent by hereditary village headmen (karnams and karjis) has been abolished. Land revenue also has been abolished from 1st April, 1967.

Water rates and irrigation cess were levied in all the districts from June 1, 1961 except in Cuttack, Balasore and Ganjam Districts, where the provisions of the Irrigation Act came into effect from July 1, 1963 except that the rates have been halved since June 1967.

FORESTS

The total forest area of the State is estimated to be 26,317.80 square miles which constitute about 42 per cent of the total land area. The forests are largely confined to Western Districts of the State while the coastal Districts are deficient in forests where the demand is greater.

Out of the total forest area, 9,100.90 square miles are Reserve Forests, 2,485.11 square miles are Reserve Lands and Demarcated projected forests, Ex-Zamindari forests, private forests and other types of forests. Sixty per cent of the total forest area of the State is demarcated and support forest growth of reasonable value. Sal is the most important timber species of the State. Besides Sal, Teak, Sisoo, Piasal, Kurum, Bandhan, Champa, and Gambhar are available. In the exploitable forests 56 per cent of the available species are utilised as fire wood. There are extensive areas of the state covered with bamboos. They feed 3 Paper Mills within the State and 2 outside.

At the end of the 3rd Plan, revenue from forests was Rs. 4,70,13,800. Besides bamboos and timber, kendu leaf used for the manufacture of bidis has yielded a net revenue of Rs. 1,97,00,000 in 1968-69. The total expenditure under the head "Forests" is about Rs. 2,00,00,000 including the expenditure on Plan schemes.

The average outlay on forests in the Annual Plans from 1966-67 to 1968-69 was Rs. 50 lakhs per year. A provision of Rs. 4 crores in the draft 4th Plan has been made under "Forests". About 25 per cent of the exploitable forests are covered with uneconomic species. One of the major schemes in the Plan is to plan economic species such as teak, sisoo and semul in the place of the uneconomic species.

The Orissa Forest Corporation is engaged in scientific exploitation of forest resources in some of the areas. It has set up its own saw mills and supply depots.

TRANSPORT

The State is still under-developed in road communication. There are 1,427 miles of State Highways, 3,183 miles of major District roads, 5,542 miles of other District roads and 4,027 miles of rural roads.

During the 3rd Plan period 724 miles of the existing roads had been improved and 50 miles of new roads laid and 110 bridges constructed to achieve the object of all weather long-distance roads. Out of 5,818 miles of roads of higher category in the State, so far (1967-68), 2,886 miles have been made all weather.

The 90-mile long Expressway connecting the Daitari mining area with Paradeep Port, undertaken in the 3rd Plan, was completed in 1967-68.

Most of the passenger bus routes have been nationalised. They are now shared by the State Transport Service and the Orissa Transport Company.

(a) State Transport Service : Total capital invested : Rs. 205.92 lakhs ; Net profit : Rs. 36 lakhs (1967-68).

(b) Orissa Road Transport Co., Ltd. : Total capital paid-up : Rs. 30 lakhs ; Net profit earned : Rs. 12,41,475 (1966-67).

(The Company operates buses on 132 routes).

CO-OPERATIVES

Total Number of Co-operative Societies: 8,925 (1966-67).

(These are being reorganized so that there may be only one for every gram panchayat, that is, 3,600 in all). Number of Credit Societies : 5,062 (1967-68) with a total membership of 14,00,000 ; Amount of short-term and medium-term loans advanced : Rs. 19,00,00,000 (1967-68) ; Amount of long-term loans advanced : Rs. 4,00,00,000 (1967-68) ; Number of Primary Mortgage Banks : 53 (1967-68) ; Number of Regional Cooperative Marketing Societies : 53 ; Wholesale Consumer Co-operative Societies (Urban) : 8 ; Number of Co-operative Farming Societies : 105 ; Number of Labour Co-operative Societies : 296 ; Number of Industrial Co-operatives : 35 rice-cum-oil mills, 2 sugar factories, 7 coldstores.

PUBLIC HEALTH (1967-68)

Commonest diseases in the State are : Small-Pox, Cholera, Filariasis and fevers (including Malaria). Malaria has almost been eradicated through the N.M.E.P. While these diseases are on the decline, the "industrial" diseases like tuberculosis are on the increase. The dreadful yaws disease among the tribal people is also under control. The latest attacks and mortality figures are not available.

Number of allopathic hospitals and dispensaries : 386 (74 urban and 312 rural) ; Ayurvedic hospitals & dispensaries : 136 ; Homoeopathic dispensaries : 16 ; Beds in the hospitals : 7,529 ; Maternity homes : 99 ; Maternity centres and child welfare centres : 176 ; Primary health centres : 314 (end of 1968) ; Medical colleges : 3 (annual in-take 450) ;

Nurses' training institutions : 4 ; Auxiliary nurses' & mid-wifery training schools : 4 ; T.B. clinics : 13 ; Leprosy control units 8 ; V.D. clinics : 13 ; and Filaria units : 5 (end of 1968) ; Malaria control units : 15.

EDUCATION (1968-69)

Enrolment of students in the age group, 6-11, 11-14 and 14-17, were 19.57 lakhs, 3.59 lakhs and 2.14 lakhs respectively.

No. of Schools : Primary : 26,000 ; Higher-Primary (Class VI and VII) 4,000 ; and Secondary 900. Teachers : Primary 53,318 ; Higher Primary 14,648 ; and Secondary 11,800.

The number of students enrolled in 83 colleges under the 3 Universities is : 31,000. There are two engineering colleges, four engineering schools and four polytechnics.

(See under article "Education" for details).

LABOUR, HOUSING

Position in 1968 :

Names of industries in which minimum wage is fixed : Rice Mill, Flour Mill and Dal Mill, Tobacco (including bidi and gudakhu making) manufactory, road construction, building operations and stone breaking or stone crushing, Public Motor Transport, employment in agricultural operations and employment under Local Authority (excepting Gram Panchayats, Anchal Sasan and Notified Area Councils) and Printing Presses.

The minimum rates for wages in respect of the following scheduled employments were revised with effect from 26-11-1960 : (1) Rice Mill, Flour Mill or Dal Mill, (2) Tobacco (including bidi making and gudakhu making) manufactory, (3) Agricultural operation, (4) Road construction or building operation and stone breaking or stone crushing within the notified area of Rourkela. Minimum Wages in respect of Municipalities & N.A.C., Public Motor Transport, construction or maintenance of roads have been revised since 1965.

The following employments have been added to Part I of the Schedule appended to the Minimum Wages Act, 1948—Salt pans, printing presses, tile and brick making, private road transport, hotels, eating houses and restaurants, distilleries, shops and establishments, metal industries, cinema industry, saw mills, handloom and hosiery.

Number of registered factories : 1,123.

Average daily number of workers in registered factories : 71,000 (approximately).

Average monthly earnings of industrial workers : Rs. 172.00.

Number of Trade Unions in the State : 207.

Total membership of trade unions : 74,902.

Number of Labour Welfare Centres : 20.

Number of establishments covered under the Minimum Wages Act : 95,206.

Number of workers employed in them : 6,31,746.

During 1967, there were 219 industrial disputes out of which 211 were conciliated upon and the rest sent to the Tribunal. In the same year, there were 25 strikes, 6 gheraos. Excepting 3 cases, which were sent to adjudication, the others were settled by Government intervention.

Number of houses built under Subsidised Industrial Housing Scheme : By private enterprises : 1,171. By Government : 1,210.

Number of houses constructed under the Low Income Group Scheme : 1,791.

POWER

Power :—The Electricity schemes may be divided in two parts, namely, generation of electricity and construction of power projects on the one hand and transmission and distribution of power to consumers on the other. The former are in the direct charge of the State Government while the latter are the responsibility of the State Electricity Board.

The more important schemes of generation :

(i) Hirakud Stage II, (ii) Talcher Thermal Station, and (iii) Balimela Hydro-Electric Project.

Hirakud Stage II :—At Hirakud, during the Third Plan period the fifth and sixth units have been commissioned. At Chiplima the first and second units were put to commercial use in July and February, 1962 respectively. The third unit was completed in September, 1963. With the commissioning of this set, Stage II of Hirakud Project was completed. It has now a scheduled capacity of 270 MW and is capable of supplying 121 MW of firm power.

Talcher Thermal Scheme :—Under this Scheme, four generators of 62.5 MW each have been set up at Talcher. Two of them were commissioned in 1967-68 and the remaining two were ready for commissioning early in 1969. Of the 250 MW, 230 MW will be available for sale. This station will be interconnected with Hirakud Grid on the one hand and the Machkund and Balimela (both hydel projects are joint ventures of Andhra and Orissa Governments). This station draws its coal from the mines operated by the National Coal Development Corporation. The estimated cost of the project is Rs. 31.5 crores.

Balimela Hydro-Electric Project :—The scheme is being worked out jointly by Andhra and Orissa Governments under an agreement of 4th September 1962 regarding construction of a dam on river Sileru at Balimela for generation of electricity. The total cost has since been revised to Rs. 30 crores. It will have a capacity of generating 360 MW or 135 MW of firm power at 100 per cent load factor. The tail water will be subsequently used for irrigating about 2.4 lakh acres in the Malkangiri Motu plains. Orissa's outlay on this scheme in 1968-69 was Rs. 3.5 crores.

Installed Power Generation in the State at the end of 1968 : 510 MW with the commissioning of two more generators at Talcher.

Rural Electrification :—Executed by the Orissa Board of Electricity, 821 villages have been electrified and 432 lift irrigation pumps were energized by end of 1968. The performance of Orissa in the rural electrification field has been poor because of lack of distribution and transmission channels. It is, therefore, proposed to strengthen and expand distribution and transmission schemes from the current year onwards. The 1968-69 budget provision was Rs. 134 lakhs.

Uptil now, under the distribution and transmission scheme, 1,210 miles of lines have been completed.

Balimela Transmission Schemes :—The Rayagada-Talcher 220 KV Transmission Line is under construction. It will link up all the three main power stations, namely, Talcher, Hirakud, and Balimela Stations. The length of this line is 512 kilometers and the cost Rs. 17.30 crores. This year's provision is Rs. 88 lakhs for completing a stretch of 50 kilometers.

Talcher Transmission Scheme :—The transmission line will hook up this Station with the Hirakud Grid at two points. By this interconnection the availability of power will be raised to 403 MW from the present capability of 170 MW. The 220 KV Single Circuit line will establish a link at Joda. A second link is provided at

Chainpal through a double-circuit 132 KV line from Talcher to Chainpal. The substations at Joda and Jeypore have been commissioned. The current year's provision on this scheme has been drastically cut from Rs. 70 lakhs to Rs. 25 lakhs.

IRRIGATION

(See also tables under main article 'Irrigation')

At present the following existing irrigation projects provide irrigation facilities to the extent mentioned against each (in acres): Rushikulya canals 1,64,400; Mahanadi Delta canals 5,54,000; Hirakud Dam Project (canals) 3,80,000 Kharif and 2,20,000 acres rabi; High Level Canal Range III 60,000; Jaipur Canals 35,455; Haldia and Baldia Projects 18,000; Salandi 25,000; Salki 40,000; Budhabhudiani 5,500; Kharif and 1,500 rabi; Derjang 9,000; Hiradharbati 10,000.

Hirakud Dam Project (Stage I): The project is complete. The entire irrigation potential of 3,80,000 acres is being utilized in the kharif and of 2,20,000 acres in the rabi season. After improvement of the canals which is under way the system will irrigate 6,27,500 acres (kharif 405,000 acres and rabi 222,500 acres).

Mahanadi Delta Irrigation Scheme: Out of the estimated cost of Rs. 34 crores, Rs. 25 crores had been spent on this project upto the end of 1967-68. The re-modelling of the existing weirs at Jobra and the canal system and the construction of a diversion weir at Mundail pick up the regulated release from the Hirakud Reservoir for irrigation in Cuttack and Puri districts. The delta canals will command an area of 16 lakh acres.

Salandi Project: The project consists of a 160-foot high dam at Hadgarh, a barrage at Bidyadharpur across the Salandi river and a canal system to irrigate an area of 1,13,000 acres in Balasore district. The cost is Rs. 13 crores, out of which Rs. 9 crores have already been spent by end of last year. It has begun irrigating already 25,000 acres. The entire project was expected to be completed by April 1969.

Anandapur Barrage Project: Estimated to cost Rs. 21 crores and irrigate 2.73 lakh acres, the project is still awaiting clearance by the Planning commission.

Medium Irrigation Projects: The important medium projects nearing completion are: Salia: (cost Rs. 2.94 crores: irrigation 20,000 acres in kharif and 6,500 acres in rabi season); Salki (cost Rs. 1.66 crores; irrigation: 40,000 acres); Budhabhudiani (cost Rs. 1.31 crores, irrigation: 6,500 acres in kharif and 2,500 acres in rabi); Godohado (cost Rs. 1.95 crores, irrigation: 10,700 acres in kharif and 3,300 acres in rabi); Dhanei (cost Rs. 1.32 crores irrigation 9,500 acres in kharif and 3,000 acres in rabi); Derjang (cost Rs. 3.72 crores, irrigation: 16,000 acres kharif and 8,000 acres rabi); Bahuda Stage I (cost not available; irrigation: 21,000 acres kharif and 1,500 acres rabi); Hiradharbati (cost Rs. 33 lakhs irrigation: 12,570 acres in kharif and 540 acres in rabi season).

At present, the major and minor irrigation projects provide irrigation to about 16 lakh acres, while the minor irrigation projects irrigate about 6.9 lakhs acres. The net irrigated area from all sources was 19 lakh acres at the end of 1968, out of the total cultivated area of 14,80,000 acres.

COMMUNITY DEVELOPMENT

(See under article on Community Development projects.)

Position in 1968:

The total number of blocks: 315: (Stage I: 61, Stage II: 189 and Post Stage II: 62). These include 75 Tribal Development Blocks.

PANCHAYATS

The gram panchayat is the main agency of development work in the area. There are 3,831 gram panchayats. The second tier in the Panchayat Raj consists of 314 panchayat samities. The top tier of zilla parishads has been abolished.

ADMINISTRATIVE PERSONNEL

(See under States Administration Personnel)

BERHAMPUR UNIVERSITY

Berhampur-4 (Ganjam), Orissa.

It is as an affiliating and examining University.

Chancellor, Dr. S. S. Ansari, Governor of Orissa; Vice-Chancellor, R. P. Padhi; Registrar, G. C. Rath.

Number of affiliated Colleges: 13.

University Teaching Departments: 4.

Number of students in the University Teaching Departments: 72.

Number of students in the affiliated Colleges: 5,000 (Approx.).

General medium of instruction: English.

BUDGET ESTIMATES: 1968-69

Estimated Receipts: Rs. 36,78,700;

Estimated Expenditure: Rs. 36,78,700.

Revised Estimate: Estimated receipts: Rs. 18,36,000.

Estimated Expenditure: 23,05,500.

ORISSA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

Bhubaneswar.

Chancellor, Dr. S. S. Ansari, Governor of Orissa; Vice-Chancellor, Dr. B. Samant Rai, M.Sc. (Botany); B.L., Ph.D. (Lond.); Registrar, Dr. D. Misra, M.A., A.M. (Columbia), Ph.D., (U.S.A.); Comptroller, A. Mallik, O.F.S.

Constituent Colleges: 4.

Degrees awarded: B.Sc. (Ag.); M.Sc. (Ag.); B.V.Sc. & A.H. and M.V.Sc.

BUDGET FOR 1968-69

Income: Rs. 56,37,600; Expenditure: 57,27,800.

SAMBALPUR UNIVERSITY: SAMBALPUR (ORISSA)

Founded: 1967.

Chancellor, Dr. S. S. Ansari, Governor of Orissa; Vice-Chancellor, Vacant; Registrar, Dr. N. K. Sahu, M.A., Ph.D., D.Litt.; Dy. Registrar, Dr. B. N. Mishra, M.Sc., Ph.D.; Finance Officer, P. K. Barma, B.Com., O.F.S.

Number of affiliated colleges: 24.

Budget Estimates for 1968-69

Receipts: Rs. 26,78,627.

Expenditure: Rs. 11,88,260.

The medium of instruction for all classes is English.

Subjects for Post-Graduate teaching and research: English, Physics, Mathematics, Chemistry, Commerce, Economics, History, Oriya, Political Science, Civil Engineering, Electrical Engineering, Mechanical Engineering, Anatomy, Pharmacology, General Surgery, Physiology, Ophthalmology, E.N.T., Obstetrics and Gynaecology, Social and Preventive Medicines, Anaesthesiology.

UTKAL UNIVERSITY

Vani Vihar, Bhubaneswar-4, Orissa.

Chancellor, Governor of Orissa; *Vice-Chancellor*, Dr. S. Misra, M.A., Ph.D. (London); *Registrar*, D. P. Barai, M.A. dip.-in-Edn.

Affiliating-cum-Teaching University.

Subjects for Post-Graduate teaching and Research: Oriya, Sanskrit, Philosophy, English, Applied Economics, Economics, History, Mathematics, Physics, Chemistry,

Botany, Geology, Psychology, Political Science, Statistics, Anthropology, Commerce and Zoology.

The medium of instruction at the University stage is English.

Number of colleges affiliated to the University: 41.

Number of teaching departments under its control: 15, including M. S. Law College.

Annual income (including Government Grants, donations and endowments during the year 1967-68 Rs. 85,77,890; Total expenditure: Rs. 91,82,280.

PONDICHERRY

Area: 185 sq. miles (481.8 sq. Km.); *Population*: 3,69,079 (1961 census), now reckoned at 4.3 lakhs.

Capital: Pondicherry.

The Union Territory of Pondicherry consists of: (1) On the Eastern Coast: (a) Pondicherry, the Capital, together with the adjoining territory, divided into 8 communes; situated at about 160 kms. south of Madras, the Territory is an enclave in the district of South Arcot in Tamil Nadu. *Area*: 290.1 sq. Km.; *Population*: 2,58,561 (1961 census).

(b) **Karikal**: divided into 6 communes; it is at a distance of 150 kms. from Pondicherry and is an enclave in the Tanjore District. *Area*: 158 sq. Km.; *Population*: 84,001 (1961 census).

(c) **Yanam**: with the adjoining territory forming one single commune; situated in the delta of the Godavari, it is an enclave in the district of East Godavari in Andhra Pradesh. *Area*: 20.7 sq. Km.; *Population*: 7,032 (1961 census).

(2) **Mahe**: The territory of Mahe on the west coast consists of the town of Mahe on the left bank of the river of the same name; and the dependent territory of Naluthara on the right bank containing the four villages of Chembra, Chalakara, Palloor and Pandakkal. It is an enclave in the District of Cannanore in Kerala State.

Area: 104 sq. Km.; *Population*: 19,485 (1961 census).

ECONOMY**AGRICULTURE (1967-68):**

Total production of food grains: 58,138 tonnes.

Production of individual food crops (in tonnes): Rice 53,670; Ragi 2,579; Cumbu 1,061; Cholam 224; Varagu 119; other millets 216.

Production of individual cash crops (in tonnes) Sugarcane 1,25,669; Groundnut 4,275; Chillies 90; Pepper 10; Onion 75; Cotton 346.

Total area of the State (according to village papers): 46,822 Hectares.

Total area (gross) cultivated: 47,349 Hectares.

Total area under food crops: 41,454 "

Total area under cash crops: 5,942 "

Net area irrigated: 24,957 Hectares.

(By tanks 4,894 hectares; channels 11,010 hectares; tube-wells 8,908 hectares; ordinary wells 39 hectares; other sources 106 hectares.)

CO-OPERATION

Position as on 30th June 1967:

Total number of cooperative societies: 198.

Total membership: 57,271.

Total working capital: Rs. 2,52,18,000.

ELECTRICITY

The entire requirement of power for Pondicherry region was obtained from the Madras State Electricity Board; for Karikal region from the South Madras Electric Supply Corporation, Tiruchirapalli.

Electricity purchased (Lakhs of Units) (1967-68): 701.41; P. C. Consumption of Power: 228.3.

INDUSTRIES**Large Scale Industries of the Territory:**

The Anglo-French Textiles Ltd., Pondicherry; Swadeshi Cotton Mills, Pondicherry; Sri Barathi Mills, Pondicherry; Soundararaja Cotton Mills, Karaikal and The Cannanore Spinning and Weaving Mills. Mahe.

Total number of automatic looms 1,964.

Total number of spindles 1,17,608.

Other Small Scale and Cottage Industries:

Food products 40; Tobacco processing 4; Textile products 1; Wearing apparel and made up textile goods 1; Wood products 18; Paper and Paper products 4; Leather products 8; Chemical products 36; Metal products except machinery and transport equipment 87; Electrical accessories and appliances 7 and Miscellaneous 47.

Industrial Cooperative Societies:

Palm Gur Society 2; Toy Making Society 1; Brick Makers' Society 1; Mat Weaving Society 4; Carpentry & Blacksmithy Society 2; Women Cottage Society 1; Coir Making Society 2; Oil Mongers' Society 1; Hand-made Paper Society 1; Handpounding Rice Workers Society 1; Pondicherry State Small Scale Industrial Co-operative Society 1; Gramodyog Co-operative Society 1; Tailoring Society 1; Multimetal Society 1; Appalam Making Society 1.

HOUSING

Under the Industrial Housing Scheme, 200 tenements were constructed in the Pondicherry area during the Second Plan period at a cost of Rs. 5.5 lakhs. A sum of Rs. 6.00 lakhs is earmarked under the schemes for the IV Plan period. Under the Co-operative Housing Scheme, 287 low and middle income group houses were constructed during 1957 to 1967 and a loan to the tune of Rs. 40.86 lakhs sanctioned in this connection.

ROADS

Total length of roads (Government): 456.13 Kms.

Total metalled road: 400.97 Kms.

A new pier has been built at Pondicherry at a cost of about Rs. 42 lakhs. Ships anchor at a distance from the

shore and contact with land is maintained by means of boats. The Ariyankuppan River Project which is under Study by the Central Work and Power Research Station when executed will provide sheltering facilities for country boats throughout the year.

EDUCATION (1966-67)

Total number of Nursery schools : 49.

Total number of teachers : 61 (Men 8 ; Women 53).

Total number of students : 2,518 (boys 1,280 ; girls 1,238).

Total number of Primary schools : 243 (for boys 233 ; for girls 10).

Total number of students : 20,628 (boys 14,116 ; girls 6,512).

Total number of middle schools : 84 (for boys 62 ; for girls 22).

Total number of students : 29,318 (boys 16,874 ; girls 12,444).

Total number of teachers in Middle and Primary Schools : 1,503 (men 945 ; women 558).

Total number of High Schools : 43 (for boys 31 ; for girls 12).

Total number of students : 19,568 (boys 13,382 ; girls 6,186).

Total number of teachers : 827 (men 551 ; women 276).

Total number of colleges for boys and girls : 5.

Total number of students : 2,211 (boys 1,573 ; girls 638).
Total number of teachers : 306 (men 171 ; women 135).

Professional Institutions and their strength : One Medical College 549 (boys 412 ; girls 137) ; One Polytechnic 152 (all boys) ; Teachers' Training Centre 264 (boys 194 ; girls 70) ; One Junior Technical School 128 (all boys) ; One School of Nursing 79 (all girls) and one school of Arts and Crafts : 12 (all boys).

MEDICAL AND PUBLIC HEALTH

No. of Hospitals 8 ; Dispensaries 21 ; Primary Health Centres 11 ; Medical Depots 7 ; Bedstrength 1,169 (excluding JIPMER) ; Ratio 1 : 316 ; Doctors 112 ; Ratio 1 : 3,295.

There is also a 430 bed hospital attached to the JIPMER, which functions under the control of the Directorate General of Health Services, Govt. of India, New Delhi.

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

CHAMBER OF COMMERCE

Post Box No. 26, Karikal.

CHAMBER OF COMMERCE

Pondicherry

President : H. M. Cassime ; *Vice-President* : T. S. N. Sundararaja Bhagavatar ; *General Secretary* : A. S. Kandasamy Pillai ; *Treasurer* : N. Govindasamy.

PUNJAB

CAPITAL : Chandigarh — a centrally administered area.

Area 50,255 square kms. Population is 1,11,47,054 (urban 25,67,306 ; rural 85,79,748). Male literates 20,90,000 ; female literates 8,95,000. Literacy 26.75 per cent. Main occupation : Agriculture.

Administratively there are two divisions (Jullundur and Patiala), eleven districts, 37 tehsils, 116 blocks.

Inhabited villages : 11,947 ; uninhabited villages : 943 and towns : 109.

The following are the districts with headquarters in brackets :— Amritsar (Amritsar), Gurdaspur (Gurdaspur), Hoshiarpur (Hoshiarpur), Jullundur (Jullundur), Ludhiana (Ludhiana), Bhatinda (Bhatinda), Ferozepore (Ferozepore), Patiala (Patiala), Sangrur (Sangrur), Rupar (Rupar), and Kapurthala (Kapurthala).

The Vidhan Sabha has 104 members and the Vidhan Parishad 42 members. The State is represented by 13 members in the Lok Sabha and by seven in the Rajya Sabha.

INDUSTRIES

Number of registered factories on January 1, 1968 : 4,256. Number of working factories : 3,815. Number of workers employed in these factories : 103,654.

Some of the main industries in Punjab are : textile, hosiery, sports, cycles and cycle parts, sewing machines, sugar, starch factories, non-ferrous metals, resin, turpentine, scientific instruments and wool spinning and weaving units and machine tools.

Production of important industries in the State in 1966-67 : Cotton textiles 295 lakh metres ; cycles : 35,826 ; sewing machines : 75,670 ; agricultural imple-

ments and machine tools : worth Rs. 1,456 lakhs ; non-ferrous metals : worth Rs. 110 lakhs ; steel rerolling : 1,94,409 tonnes ; wood and machine screws : worth Rs. 71,01,000 ; scientific instruments : worth Rs. 3,61,000 ; hosiery : worth Rs. 833 lakhs ; woollen textiles : worth Rs. 15,46.22 lakhs ; power loom weaving : worth Rs. 1,825 lakhs ; machine embroidery : worth Rs. 12,35,000 ; cotton ginning and processing : 10,39,000 bales ; sports : worth Rs. 2,00,03,000 ; Resin and turpentine : worth Rs. 2,75,82,000.

Punjab occupies a prominent position in the small scale sector with about 16,646 units in its territory out of a total of about one lakh units in the whole country.

The State has 63 large-scale and about 59 medium-scale industrial units involving a total capital investment of about Rs. 148.37 crores.

Out of the provision of Rs. 18 crores made for industries in the Fourth Plan, Rs. seven crores have been earmarked for the development of large and medium industries. There are five major projects which will be immediately taken up by the State Industrial Development Corporation set up recently. They are power tillers, steel forgings, machine tools, alloy steel and rolling mill and precision measuring instruments. The total capital investment on these projects is estimated at Rs. 115 crores.

AGRICULTURE

The total area of the Punjab, according to village records pertaining to the year 1966-67 was 5,026,000 hectares as per details below :—

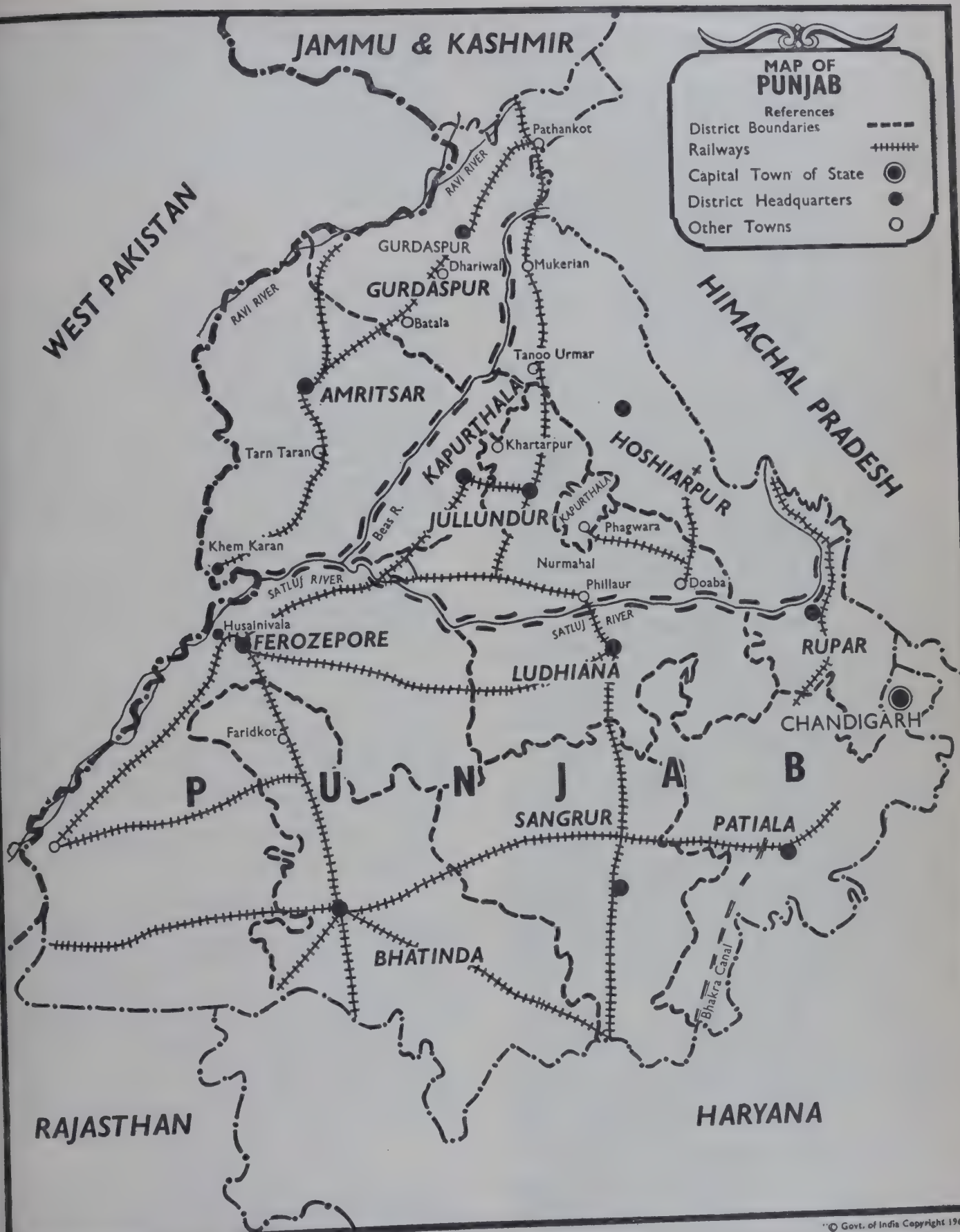
Area (in hectares) under forests : 79,000 ; net area available for cultivation : 640,000 ; other uncultivated area excluding fallow land : 174,000 ; fallow land : 247,000 ; net area sown : 3,886,000 ; Area under crops :

JAMMU & KASHMIR

MAP OF
PUNJAB

References

District Boundaries	----
Railways	+++++
Capital Town of State	●
District Headquarters	●
Other Towns	○



RAJASTHAN

HARYANA

5,172,000; net area sown: 3,864,000; sown more than once: 1,286,000. Total cropped area: 5,072,000. Net area under irrigation: 2,263,000 as per details given below:

Government canals: 1,274,000; private canals: 6,000; tanks: 3,000; wells: 896,000; other sources: 108,000. In the matter of foodgrains, Punjab is the second largest wheat and gram producing area in the Union.

The following targets of agricultural production had been proposed for the year 1968-69.

Foodgrains: 54 lakh tonnes; oilseeds: 2.5 lakh tonnes; sugar cane 6 lakh tonnes; cotton: 9.40 lakh bales.

There is very little scope for extension in area under crop in Punjab as about 91 per cent of the total cultivable area has already been brought under plough.

There are nearly 11,300 Agricultural Credit Societies and 1,000 Cooperative Farms in the State.

ANIMAL HUSBANDRY

Total number of animals in the State: 73.64 lakhs as per details given below:—Cattle other than buffaloes: 31.20 lakhs; buffaloes: 29.36 lakhs; sheep and goats: 10.48 lakhs; others: 2.60 lakhs.

There are 198 permanent outlying veterinary dispensaries; 36 artificial insemination centres; 69 gaushalas; two gosadans; and 12 sheep and wool extension centres.

An outlay of Rs. 290 lakhs (including Rs. 15 lakhs for veterinary education and research) was earmarked for the Fourth Five-Year Plan for the implementation of various livestock development programmes as compared to Rs. 268 lakhs provided in the Third Plan for the composite Punjab. A sum of Rs. 25 lakhs was proposed to be spent during the year 1968-69.

COMMUNITY DEVELOPMENT

The State has 116 community development blocks. The entire area of the state is covered by blocks.

In the Fourth Five-Year Plan special emphasis is laid on the programmes of agricultural production, development of power and irrigation. The number of blocks in which rural works programmes had been undertaken at the time of the reorganisation of the state was 115.

AGRARIAN REFORMS

Total area of the State: 116.90 lakh acres. Total area due for consolidation: 115.08 lakh acres. Balance which was to be consolidated during 1967-68: 1.26 lakh acres.

In pursuance of its policy to utilise every inch of available land for growing more food and other essential crops, the State Government has enforced the East Punjab Utilization of Land Act, 1949 under which a notice is served on every land owner who allows his land to remain uncultivated for six or more consecutive harvests and the land thus taken over is leased out to cultivators for a term ranging between 7 and 20 years, priority being given to Harijans.

The scheme for the resettlement of landless labourers and those ejected from the land is also in operation.

IRRIGATION

Net area irrigated inclusive of areas irrigated by wells in the State: 2,281,000 hectares as per details given below:—

Government canals: 1,274,000; Private canals: 6,000; Wells: 896,000; other sources: 111,000.

The construction of the 740-foot-high Bhakra dam has been completed in all aspects except minor jobs relating to grouting and approach roads etc. The total capital cost of the dam, comes to Rs. 6,270.67 lakhs.

Another multi-purpose project of the same magnitude now under execution in the State is the Beas-Sutlej Link Project and the Beas Dam Project at Pong.

The power houses at Bhakra Dam, Beas Dam, Beas-Sutlej and Jogindernagar will form a grid system to cover the entire State of Punjab and neighbouring areas.

Other irrigation projects included in the current Plan include the utilisation of surplus Beas waters, sinking of tubewells in upper Bari Doab, providing irrigation to areas between Harika and Jodh Singhwala and several lift irrigation schemes.

(For more details see under main article "Irrigation").

POWER

The State has nine hydro-generating units with an installed capacity of 274,740 K.Ws, one steam power station with an installed capacity of 5,000 K.Ws and 30 diesel power units with an installed capacity of 5,073 K.Ws. Total installed capacity is 284,813 K.Ws. The number of electrified villages 3,673. General consumers: domestic 470,814; commercial 109,731. Industrial consumers: small scale 1,965; medium 1,276; large scale 178; cottage: 169.

Agricultural consumers: Bulk supply consumers: 41. Public lighting 248. Total number of consumers: 635,562.

Great emphasis is laid on the energisation of tube wells. It is proposed to give connections to 50,000 tube wells during the current plan period. About 3,50,000 other connections will also be given during the period.

The Punjab State Electricity Board has chalked out a programme of spending about Rs. 53 crores on multi-purpose river projects, Rs. 14 crores on spill-over schemes (generation other than multi-purpose), Rs. 15 crores on new schemes and Rs. 20 crores on distribution projects during the Fourth Plan period.

TRANSPORT

There are about 6,359 kilometres of metalled roads in Punjab.

The Punjab Roadways which cover a daily mileage of 91,000 and cater to about 2.5 lakh passengers every day have a fleet of 773. The private sector contributes in operations and carriage of passengers almost to an equal extent.

The capital is linked with New Delhi by air. The I.A.C. runs a daily service between Delhi and Srinagar via Chandigarh and Amritsar.

LABOUR

Number of registered factories in the State in January 1968: 4,250. Number of working factories: 3,815. Number of workers employed in these factories: 103,659.

Employees' Provident Fund Scheme has been enforced in the State. For the welfare of employees in all commercial establishments the Government has enacted legislation known as Commercial Establishments Act.

Due to speedy industrialisation and coming into force of the Payment of Bonus Act, 1965 and incorporation of Section 2A in the Industrial Disputes Act, the number of disputes is on the increase. Consequently the conciliation machinery is being strengthened and streamlined.

EDUCATION

Number of students (boys and girls) receiving education in schools during 1967-68: 18,79,528. Total number of students in primary classes: 13,33,196. Middle class: 3,79,992; High and Higher Secondary classes: 1,66,440; Percentage of literacy: 26.75.

During 1967-68 the total number of primary schools in the State was 6,988; middle schools: 870; High schools: 6,755; higher secondary schools 285; Arts and science schools 71; Teachers training colleges: 16; extension service schools: 3; extension service units: one; J. B. T. centres: 277.

In the reorganised Punjab with a total population of 111.36 lakhs a sum of Rs. 2,360 lakhs has been provided under general education during the Fourth Plan.

Additional one lakh students in age group 6-11 and 35,000 in the age group 11-14 will be enrolled during the Fourth Plan period.

HEALTH

Punjab has the highest life expectancy (52 years) and the lowest death (9.35 per 1,000) in the country.

During the year 1967-68 the total outlay of Rs. 225 lakhs had been earmarked as under:—

Medical Health: Rs. 147.37 lakhs; Ayurvedic: Rs. 3.87 lakhs; Water supply: Rs. 75 lakhs.

The number of hospitals in the State is 91 in urban areas and six in rural areas; Primary Health Centres: 26 in urban areas and 90 in rural areas; Dispensaries 92 in urban areas and 164 in rural areas. In addition there are two Ayurvedic hospitals and 171 dispensaries in rural areas and one hospital and ten dispensaries in urban areas. There are 7,291 beds in allopathic institutions in urban areas and 1,256 in rural areas and 50 in Ayurvedic and Unani institutions in urban areas and 20 in rural areas.

CO-OPERATION

In the year 1966-67 the number of Cooperative Societies in the State was 22,026 with a membership of 19.12 lakhs and a business turn over of Rs. 62,086 crores per annum covering 74.30 per cent of the state's total population. There were 20 Central Co-operative Banks and 11,064 Agricultural Credit Societies. There were 156 Marketing Societies, 935 Cooperative Farming, five Cooperative Sugar mills, 202 cooperative central consumer stores.

There is no village without a cooperative credit society.

During the Fourth Plan a provision of Rs. 327 lakhs has been made for the development of cooperatives. The outlay proposed for the financial year 1968-69 was Rs. 40 lakhs which is 1.1 per cent of the Plan outlay. A sum of Rs. 16.56 crores has been proposed for strengthening and revitalising the village credit societies.

PANCHAYATS

The entire State is covered by panchayats. A total area of 5,79,874 acres of shamlat land is vested in the panchayats in the State. Of this 1,89,151 acres of land is cultivable and 3,90,723 acres non-cultivable. By leasing out the cultivable land the panchayats derive an income of Rs. 7,79,586 per annum.

The Fourth Five-Year Plan includes only one scheme to benefit panchayats. This relates to the financial assistance to the panchayats for expenditure on revenue earning schemes with a total outlay of Rs. 30 lakhs.

JUDICIARY

The separation of the judiciary from the executive was formally inaugurated by the Chief Justice of India on October 2, 1964.

ADMINISTRATIVE PERSONNEL

(See under States Administrative)

UNIVERSITIES

There are three universities in the State: the Panjab University, Chandigarh; The Agricultural University, Ludhiana and the Punjabi University at Patiala.

PANJAB UNIVERSITY

Chandigarh

Chancellor: Vacant.

Vice-Chancellor: Suraj Bhan; Registrar: Sujan Singh.

Panjab University is a teaching and affiliating University.

Provision for teaching upto the Post-graduate standard exists in the following subjects/courses:—

English, Sanskrit, Persian, Arabic, Hindi, Panjabi, Urdu, History, Economics, Political Science, Mathematics, Mental & Moral Philosophy, Psychology, Geography, Sociology, Music, Ancient Indian History and Culture, Public Administration, Statistics, History of Arts, Botany, Zoology, Chemistry, Geology, Physics, Bio-physics, Bio-chemistry, Microbiology, Anthropology, Agricultural Economics, Agriculture, Commerce, Dairying, Education, Physical Education, Engineering, Law, Dental Science, Medicine, Surgery, Pharmacy.

There is provision for research by scholars for doctorate degrees.

Number of Colleges:—Constituent Colleges 4; Affiliated Arts & Science Colleges: 143; Technical & Professional Colleges: 47; Number of Students: 1,29,435.

Budget (1967-68): Receipts: Rs. 2,91,68,394.00; Expenditure Rs. 2,83,94,958.51.

PUNJAB AGRICULTURAL UNIVERSITY

Ludhiana.

Estd.: 1962. The basic structure and organisation of the University has been patterned on the model of the Land Grant Universities in the United States with a complete integration of residential teaching, research and extension education in Agriculture, Agricultural Engineering, Home Science and Veterinary Sciences. The University has its three campuses at Ludhiana, Hissar and Palampur.

Chancellor: Governor of Punjab; Vice-Chancellor: Dr. M. S. Randhawa, I.C.S., Registrar: R. D. Joshi.

Number of constituent colleges: 8.

Post-graduate Departments: Agronomy, Plant Breeding, Horticulture (Pomology & Olericulture), Soils, Extension Education, Chemistry-Biochemistry, Economics & Sociology, Genetics, Botany & Plant Pathology (Plant Pathology and Plant Physiology), Statistics, Microbiology, Zoology-Entomology, Animal Breeding, Animal Nutrition, Animal Production Physiology, Livestock Management, Veterinary Bacteriology & Hygiene, Veterinary Parasitology, Veterinary Pathology, Veterinary Physiology & Pharmacology, Veterinary Surgery and Veterinary Medicine.

Budget Estimates (1968-69): Receipts: 3,54,26,140
Expenditure 3,54,26,140

PUNJABI UNIVERSITY

Patiala.

This University was established for advancement of Punjabi Studies and development of Punjabi Language as medium of instruction and for the promotion of higher education and research. The University started functioning on April 30, 1962. This is a Unitary/Residential-cum-Teaching University.

Chancellor: Governor of Punjab; Vice-Chancellor: Sardar Kirpal Singh Narang; Registrar: Sardar Amrik Singh.

Budget Estimates (Revised for 1967-68): Income: Rs. 1,05,34,645.00; Expenditure: Rs. 1,07,89,621.00.

RAJASTHAN STATE

CAPITAL: Jaipur. Area: 3,40,230 sq. kms. (Reporting area for land utilisation purposes 1965-66); 3,42,268 sq. kms. (according to Surveyor-General of India).

Population (1961 census): 20,155,602.

Rajasthan is divided into 26 districts, 83 sub-divisions and 195 tehsils.

No. of village panchayats as on 31-3-66: 7,382; No. of panchayat Samities 232. The Village Panchayats cover 34,525* villages and serve 16,872 thousand people.

*Included unpopulated villages.

DISTRICTS, AREA AND POPULATION

See article on "Population."

MINERALS

Rajasthan is an important mineral and building material producing State. It ranks next to Bihar in Mica which is chiefly found in Ajmer, Udaipur, Bhilwara and Jaipur Districts. Over a lakh persons have been employed in the State mining industry.

The chief non-metallic minerals are Silica sand, Felspar, Asbestos, Barytes, Clays, Emerald, Fuller's earth, Bentonite, etc. The metallic minerals are lead, zinc, iron ore and manganese ore. The State is the sole supplier of gypsum for fertiliser manufacture to Sindri plant.

Lignite (coal) is mined near Palana in Bikaner District. There are vast deposits of high quality building stones such as marbles, sandstones and limestones. Limestone is used for the manufacture of cement at Lakheri and Sawai Madhopur and Chittorgarh and for lime at a number of places. Marble quarries at Makrana in Nagaur District are famous for building stone.

Large resources of sodium sulphate and salt also occur at Deedwana and Sambhar lake. Uranium deposits have been found at Umra and Udaisagar in Udaipur District.

Provisional production in thousand metric tonnes of some important minerals in 1966; Coal (Lignite) 7.2; Metallic minerals: (a) Ferrous (1) Iron ore 0.3; (2) Manganese ore 7.9; (b) Non-ferrous (1) Lead concentrate 5.2, (2) Zinc concentrate 8.9, Minerals: Asbestos 5.9; Barytes 7.1; Calcite 8.1; Emerald (crude) 11.0; Felspar 18.2; Garnet 0.2; Glass sand 40.8; Graphite nil; Gypsum 1,153.4; Lime stone (for cement making) 1,715.2; Mica (Crude) 6.4; Quartz 12.7; Salenite 4.1; Soap stone 135.9; White clay 14.6; Yellow Ochre 0.8; Building Materials: Building stone (including Kankar, Bajri and Sand stone etc.) 6,860.5; Lime stone (for Lime making) 679.0, Marble 63.0, Bentonite, 5.7; Fuller's earth 11.7; Brick earth and ordinary clay 865.7.

The State produced minerals worth Rs. 9.09 crores (Provisional) during 1966.

INDUSTRIES

Among the large-scale industries in the State mention may be made of cotton textile (14 units), cement (2 units), glass (1 unit), sugar (2 units), ball-bearings (1 unit) and electric metres (1 unit). The industrial production of some commodities during 1966 was as under:—

Cloth—lakh kg. (n.a). (625 lakh metres); Yarn—lakh kg. 345; Glass—metric tonnes 288; Cement—lakh metric

tonnes 11.2; Salt—lakh metric tonnes 4.1; Ball bearing—lakh number 56.4; Sugar—'000 metric tonnes 18.3 @; Foreign spirit—'000 litres 1,021.3; Rectified spirit—'000 litres 1,596.5; Denatured spirit—'000 litres 38.4; Country spirit—'000 litres 2,489.0.

The most important cottage and small-scale industries are tie and dye Fabrics, Gota Kinar wooden toys, hand-made paper, papier mache toys, gem cutting, cloth printing, manufacture of agricultural tools and implements, embroidered shoes (Jutiyan) and leather bags, water bottles (Badlas) and handloom weaving. From the point of view of employment, khadi and village industries also play an important role in this State.

AGRICULTURE

Land Utilisation: According to land utilisation statistics for the year 1965-66, the total geographical area of the State was 34,023 thousand hectares, comprising 1,128 thousand hectares under forests, 6,035 thousand hectares not available for cultivation, 8,310 thousand hectares uncultivated land, 4,418 thousand hectares of fallow land and 14,132 thousand hectares net area sown. The total cropped area was 14,972 thousand hectares, the area sown more than once being 840 thousand hectares only.

Agricultural Production:

Main Food Crops of the State: Cereals—Bajra, Jowar, Wheat, Maize, Barley, Small millets, Rice; Pulses: Gram, Tur, other Rabi pulses, other Kharif pulses.

Main cash crops of the State: Oilseeds: Sesamum, Rape and Mustard, Linseed, Groundnut, Cotton, Sugarcane, Tobacco, Chillies, Potatoes.

Area and production of principal food crops in '000 hectares and '000 metric tonnes respectively for the year 1965-66 are as follows:—

Cereals: Bajra 4,807; 932; Jowar 1,015; 287; Wheat 966; 776; Maize 740; 641; Barley 378; 437; Small millets 80; 19; Rice 94; 28.

Pulses: Gram 1,130; 416; Tur 36; 13; Other Rabi Pulses 16; 8; Other Kharif Pulses 1,762; 235.

Oilseeds: Sesamum 630; 51; Rape and Mustard 220; 72; Linseed 67; 10; Groundnut 217; 92.

Others: Cotton 278; 167; Sugarcane 57; 732; Tobacco 4; 2; Chillies 24; 12; Potatoes 2; 5.

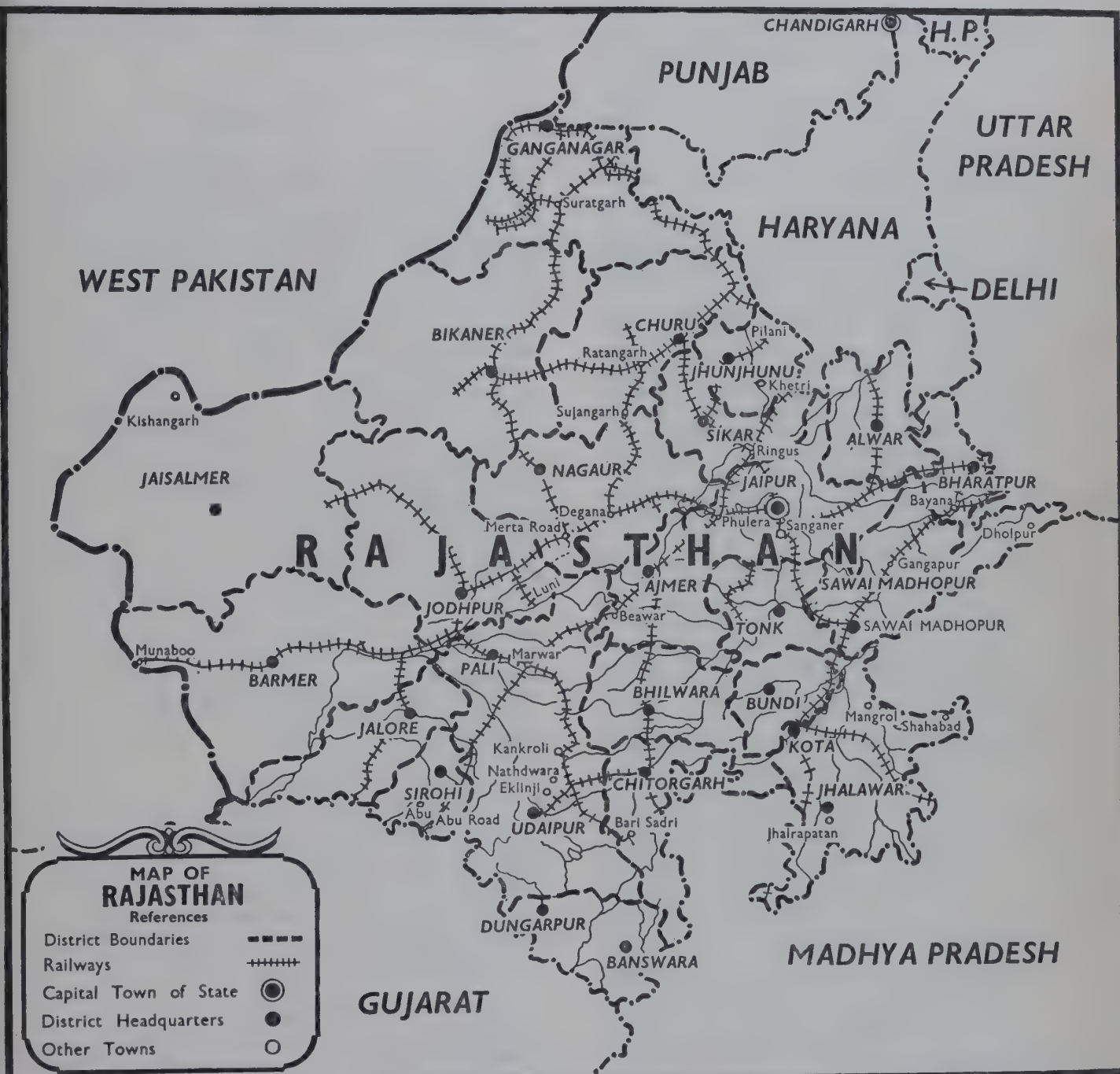
Fish: Variety of fish produced: There is a large number of tanks, lakes and rivers in which inland fishes are found. The main species are the major carps, viz. Rohu, Migal, Kalbasu and Katla; Minor carps, viz. Mahaseer; Cat Fishes: Launchi and Seenghara; Live Fish: Sol, Magur and Singhi.

During the year 1965-66, 10.37 lakh fish seeds were produced and distributed to the private pisciculturists against the stipulated target of 30 lakh fish seeds and an area of 202 hectares was covered under this programme thereby bringing the total area covered in the State till the end of the year to 1,683 hectares.

Sugarcane: (In terms of Gur) During the year 1964-65 and 1965-66 the average yield of sugarcane came to 1,483 and 1,292 Kg. per hectare respectively.

CENTRAL STATE FARM, SURATGARH

The 12,141 hectares Central State Farm at Suratgarh, in the Ganganagar district of Rajasthan, is the first State-run-farm in the country. Started with the main objective



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of production of improved varieties of seeds, the farm has made considerable progress in this regard.

The farm has made an estimated profit of Rs. 48 lakhs during 1967-68.

The farm has a fleet of 103 tractors, 40 harvester combines, transport vehicles and various types of other modern machines for farm operations like winnowing, grading, harrowing, seed-drilling etc. Most of this machinery has come as gift from the Soviet Union. A workshop, with a foundry helps to maintain, repair and overhaul the machines.

The farm grows mainly food crops like wheat, jowar, paddy and bajra and cash crops like cotton, oilseed and sugarcane. Under favourable conditions the average yield per hectare from a 6.07 hectare plot has reached: wheat 55 qtls., paddy 39 qtls., jowar and gram 31 qtls., cotton 24 qtls., sugarcane 1,288 qtls.

The area under Kharif & Rabi crops during 1967-68 was 1,801.56 hectares and 7,961.99 hectares respectively. The farm has produced the following Rabi Seeds which is being supplied to States for multiplication:—

Wheat 60,534 qtls.; Gram 9,834 qtls.; Barley 5,034 qtls.; Oil Seeds 8,219 qtls.

Various Mexican varieties of wheat were also sown at the Farm and have given encouraging results. The average yield in Mexican wheat has been more than 8 quintals and the highest yield in a plot of 6.07 hectares has been 41.64 quintals. During Kharif 1967, 220.96 hectares were put under four varieties viz. LEE, Hill Clark, Bragg and Soyabean. Since its inception the Farm has produced food grains and miscellaneous crops valued over Rs. 500 lakhs.

Afforestation: The afforestation scheme is progressing satisfactorily. A large number of Shisham, Babool and Mulberry trees have been grown on the boundaries of the Farm and main roads. These are serving as wind breaks and also checking the high velocity winds and sand storms. The plants are raised in the Farm nursery and are planted every year in the Farm area. At present 60,000 seedlings are ready for transplantation.

CENTRAL STATE FARM, JETSAR (RAJASTHAN)

The second biggest Mechanised Farm comprising 12,140.7 hectares was started at Jetsar in the Ganganagar District of Rajasthan in May, 1964. The main object of the Farm is to produce pedigree seeds and supply it to States for multiplication. The Farm is getting only non-perennial water from the Rajasthan Canal. Due to shortage of irrigation Rabi sowing has not been taken up in large areas. Kharif is the main crop of the Farm, the major crops being cotton, groundnut, guar and bajra.

The Farm has a fleet of 30 tractors, 3 harvester combine bowzers, heavy duty trucks and jeeps. Besides the Farm has modern machines, implements such as crane, mobile shop vans, land levellers, ditchers, graders, scrapers, dozers and seed drills etc. These machines have been imported from the U.S.S.R.

Despite inadequate irrigation, the Farm has been able to bring an area of 1,970.43 hectares under Kharif and 240.38 hectares under Rabi during the year 1967-68. The average yields per hectare are: Cotton 4.77 Qtls, Groundnut 1.29 Qtls, Bajra 6.95 Qtls, and Mustard 4.73 Qtls.

Afforestation work has also been taken up at the Farm and the Farm has by now grown about 34,200 sheesham, 5 K. M. Babool and 107 plants of eucalyptus. The area

under afforestation is likely to increase when the Farm gets regular supply of irrigation water.

LIVESTOCK

The following figures relate to 1965-66 (Provisional):

Number of Veterinary Hospitals 204; Number of Veterinary Dispensaries 129; Artificial Insemination Centres 19; Key Village Centres 136; Mobile dispensaries 17; Mass Immunisation Centres 7; Total livestock population 374.75 lakhs.

(See also article on "Livestock").

LAND REFORMS

By the end of March, 1961, the Jagirdari, Zamindari and Biswedari tenures had been abolished. The Rajasthan Tenancy Act, 1955, has provided for security of tenure and fixity of rent. There are now only four classes of tenants viz., Khatedars, Maliks, Tenant-Khudkasht and Gair Khatedar tenants. Rents have been fixed and forced labour prohibited. Ceilings on existing holdings and on future acquisitions have also been prescribed.

By the end of March, 1966, a sum of Rs. 2.61 crores was paid as final compensation to 50,175 Jagirdars.

The State Government has also taken effective steps for the rehabilitation of *ex-Jagirdars* and have allotted lands to them at concessional rates in the irrigated area, coming under the command of Bhakra Project.

The Rajasthan Govt. has taken a decision that ceiling on agricultural holdings in Rajasthan will be imposed in one stage instead of four stages as envisaged earlier.

The ceilings prescribed under the Act for a family consisting of five persons is 30 standard acres of land capable of producing 300 maunds of wheat per year or any other produce equivalent in price of wheat. It also provides that if a family consists of more than five persons, every person in addition to five will get additional six acres of land subject to the maximum of 60 acres of land.

During the year 1965, under the programme of Bhoodan Yagna in the State no land was donated and of the total land available for distribution, 1,147 hectares of land was distributed amongst 906 families.

PANCHAYATS

The Panchayat Samitis are the executive bodies with wide powers including those for formulating and executing the development programmes, and for imposing taxes. The Zila Parishads are the supervisory and co-ordinating bodies.

Under this democratic decentralisation, at the end of 1965-66, there were 7,382 village panchayats and 1,368 Nyaya Panchayats covering 34,525 villages serving the total rural population of the State.

IRRIGATION

Bhakra Project: The supply in the Bhakra Canals in Rajasthan has become perennial since 1963-64. The total area irrigated during the year 1966-67 was 2.34 lakhs hectares.

Jawai Project: The total area irrigated from this project during 1965-66 was 5.22 thousand hectares.

Chambal Project: The cost and benefits are shared with the Govt. of Madhya Pradesh and the project will be completed in three stages (i) Gandhi Sagar Project, (ii) Rana Pratap Sagar Project, (iii) Kota Dam Project. Most of the work of the first stage i.e. the Kota barrage, the Gandhi Sagar, the right main canal and the left main

canal were completed by the end of the 2nd Plan and the remaining work was completed during 1961-62. The irrigation was started from this project in November, 1960 and an area of 96.67 thousand hectares was irrigated during 1966-67.

Rajasthan Canal

The Rajasthan Canal from Harika (Punjab) to Ramgarh (Jaisalmer district) on completion will be 425 miles long and will irrigate 11.63 lakh hectares out of the net culturable commanded area of 14.92 lakh hectares. The gross commanded area under this project will be 32.37 lakh hectares.

An amount of Rs. 38 crores was provided in the State's III Plan for this project out of which Rs. 29.13 crores or 77 per cent were spent during the Plan period. During 1965-66 a sum of Rs. 454.66 lakhs or 106.98 per cent of the allotment of Rs. 425.00 lakhs was spent. By the end of the year 1965-66 the work on Rajasthan feeder was completed and out of a total of 469.9 kms. of the Rajasthan main Canal, work on the first 45.1 kms. was completed and from 45.1 km. to 96.6 kms. work was in progress on the Canal. Earthwork and excavations on direct distributaries were also in progress at the end of the year (1965-66).

Rajasthan Canal will depend on the water of the rivers Beas and Ravi. For ensuring perennial supply, Pong Dam on the Beas is being constructed by the Government of Punjab under the aegis of Beas control. The work on the project was started in the year 1960 and is expected to be completed by 1971-72.

In addition to the irrigation benefits, it will have six units of 60,000 kW-installed capacity each for generating power. The Rajasthan Government had made a provision of Rs. 25 crores in its Third Five Year Plan to meet its share of expenditure on the Pong Dam. Out of this amount, a sum of Rs. 24.95 crores is estimated to have been spent. During 1965-66, the share of expenditure of the State was estimated to be Rs. 596.00 lakhs.

POWER PROJECTS

The State's Third Five Year Plan envisaged to increase the installed capacity of the State by 275 thousand kW (revised) and electrification of 303 additional localities by the end of the Third Plan period.

During 1964-65, the installation of one 3,000 kW Turbo-set at Jodhpur was completed. Besides, the installation work of five units of 62.5 MW each at Satpura Thermal project in Madhya Pradesh was in progress which was expected to be completed by 1967-68. Rajasthan will get about 103 MW of firm power as its share from the project. The fourth unit of 23 MW was commissioned at Gandhi-sagar during November, 1963 in which Rajasthan is a fifty per cent partner with Madhya Pradesh. The work on Ranapratapsagar and Kota Dam station was in progress and these were expected to be commissioned during the year 1967-68 and 1968-69 respectively. On completion these will provide 45,000 kW and 30,000 kW of firm power respectively. Bhakra Left Bank Power station has been fully commissioned and 22 MW of power is at present available to Rajasthan from it. The work on Bhakra Right Bank power has not been completed. About 45 MW of firm power will be available to Rajasthan. The work on Beas Sutlej project is in progress and is likely to be completed during the early Fifth Plan period when the State is expected to get a little over 1.0 lakh kW power as its share.

Three sets which were purchased from Elect. Board, Punjab, were commissioned at Bhilwara and the work of two sets was under progress at the end of 1965-66. A network of transmission lines has been spread supplying power to various corners of Rajasthan.

As a result 1,181 Km. of 132 kV, 346 Km. of 66 kV, 3,227 Km. of 33 kV and 2,157 Km. of 11 kV lines have been laid in the State by the end of the year 1964-65. The inclusion of 220 kV Hissar Khetri-Jainpur Transmission line in the Third Plan programme on the direction of the Planning Commission and the Central Water and Power Commission was a major step taken by the Government in 1965. The work is in progress.

During 1965-66, 515 localities were electrified as against 279 during 1964-65, thus bringing the total to 1,102 localities electrified so far, out of which 14 localities were electrified by privately owned power houses.

During 1965-66, 225.283 million Kwh of electricity was generated in Rajasthan and 231.375 million Kwh were purchased from the adjoining States and non-electric utilities respectively, bringing the total electricity generated and purchased to 456.658 million Kwh. The analyses of electricity consumed reveal that the major part of electricity was consumed in industries, followed by public water supply and pumping, domestic light and fans, commercial light and fans, irrigation and agriculture, public lighting and domestic heat and power. Per capita production of electricity rose from 7.86 Kwh in 1960 to 21.08 Kwh in 1965. Similarly the *per capita* consumption of electricity rose from 5.34 Kwh to 15.98 Kwh during the same period.

Work on India's second nuclear power station at Ranapratapsagar near Kotah has commenced.

CO-OPERATION

By the end of the co-operative year ending June, 1966 the number of co-operative societies was 22,580 with a membership of 14,92,311. The share capital and the working capital of these societies stood at Rs. 1,140 lakhs and Rs. 5,700 lakhs respectively.

MEDICAL & PUBLIC HEALTH

For expansion of medical facilities, 232 primary health centres were functioning till the end of 1966. The number of allopathic hospitals and dispensaries at the end of the year 1966 stood at 329 and 211 respectively. Besides, 18 Ayurvedic and Unani Hospitals with 305 beds and 1,482 dispensaries, were functioning in the State. Further details are given below :

Kinds of State Public Hospitals: Figures for 1965 : T. B. Hospitals: (i) Sanatorium 4; (ii) Hospitals and Clinics 17; Leprosy hospitals 2; Mental hospitals 2; Isolation: Hospitals 2; Other hospitals 293; Dispensaries: 215.

Number of beds: Maternity 1,372; T.B. 1,471; Isolation 278; Leprosy 95; V.D. 45; Mental 305; Eyes 471; General 7,738; Total beds 11,775.

During 1965-66 there were 1,441 Civil Assistant Surgeons, 103 Specialists, 580 staff nurses, 984 midwives, 2,863 compounders, 1,132 sanitary inspectors and malaria surveyors, 992 vaccinators, 310 health visitors and 226 dais. During 1965-66 there were 18 Ayurvedic and Unani hospitals, 1,482 Ayurvedic and Unani dispensaries; one Yogic centre. During 1965-66 there were 1,661 vaidyas and hakims, 1,388 compounders/nurses and 305 beds.

Patients treated in allopathic institutions in 1965 were: Outdoor 125.02 lakhs, and indoor 5.07 lakhs respectively.

There were five medical colleges: the Sawai Mansingh Medical College at Jaipur; The Medical College, Udaipur; the Medical College, Bikaner; the Medical College, Ajmer and Medical College, Jodhpur during 1965-66.

ROADS & TRANSPORT

Position in 1965-66 : Total length of roads 30,586 km ; Cement concrete roads 44 km ; Painted roads 11,510 km ; Metalled roads 5,741 km ; Gravelled roads 6,471 km ; Fair weather and dressed up tracks 6,820 km ; Total number of motor vehicles (1965) 50,164.

Number of private cars and jeeps 15,385 ; Private buses 363 ; Cycles and tricycles 7,978 ; Taxis, cars and contract carriages 400 ; Stage carriages 5,672 ; Public carriers 11,323 ; Private carriers 1,964 ; Tractors 6,676 ; Others 403.

LABOUR (1965-66)

Number of registered factories : 1,509 (at the beginning of 1966).

Number of registered Trade Unions in State : 617.

Total membership : 89,542.

Industrial Disputes : Disputes 21 ; Workers involved 3,002* ; Man-days lost 19,495*.

Industry-wise statement on strikes, workers involved and man-days lost respectively during 1965-66 were :—

Textiles 3 ; 1,825 ; 11,374 ; Soap Stone 3 ; 232 ; 1,792 ; Municipalities 2 ; 191 ; 427 ; Chemicals 1 ; 124 ; 2,232 ; Power cables 1 ; 257 ; 2,061 ; Cotton ginning 1 ; 29 ; 87 ; Mica 3 ; 344 ; 1,522 ; others 7 ; N.A. ; N.A. ; Total 21 ; 3,002* ; 19,495*.

Accidents (enquired into) ; Fatal 8* ; Non-Fatal 3,184*.

Workmen's compensation : cases decided 207 ; amount paid Rs. 1,78,294.

Employees' Provident Fund Scheme : No. of factories covered 832 ; Workers benefited 51,060 ; Contribution from the workers Rs. 31·68 lakhs.

Twenty-nine Labour Welfare centres, in places having 500 or more industrial workers, have been established by the end of the year 1965-66.

No. of labourers benefited : 51,818.

No. of children benefited : 37,455.

No. of adults educated : 1,925.

No. of children educated : 4,808.

No. of factories covered by State insurance : 267.

No. of workers insured : 49,000.

Eighteen Employment exchanges were functioning in the State covering all the 26 districts.

Registration during 1966 : 1,32,566. Placement during 1966 : 16,101.

EDUCATION, 1966-67 †

Educational Institutions of all the standards : 32,745.

Teachers : 81,810, Students : 26,03,810.

Elementary education is free throughout the State.

(See also under *Educational Statistics* (1965-66) for more details)

Place of language in the education system : Regional language is Hindi which is compulsory. English is compulsory after Standard VI. Hindi is the medium of instruction.

The Rajasthan Government passed on Aug. 21, 1964, the Primary Education Bill which seeks to provide free and compulsory primary education for children in the State.

ADMINISTRATIVE PERSONNEL

(See under *States Administrative Personnel*)

UNIVERSITY OF JODHPUR

Jodhpur

(Established 1962)

This is a Unitary and Teaching University.

Chancellor : Governor of Rajasthan (ex-Officio) ; *Vice-Chancellor* : Dr. M. L. Roonwal ; *Registrar* : Sukumar Chakrabarti.

University Departments

Faculty of Arts : English, Hindi and Sanskrit, History, Philosophy and Psychology ; *Faculty of Social Sciences* : Economics, Sociology, Political Science and Geography ; *Faculty of Science* : Physics, Mathematics, Chemistry, Zoology, and Botany ; *Faculty of Commerce* : Diploma Courses in Commerce upto post graduate classes. J.D.C. Part I and II ; Costs and Works Accountancy and Steno-Typing ; *Faculty of Engineering* : Civil, Structural, Mechanical, Electrical and Mining.

This University also provides facilities for researches in the above subjects.

No. of students 6,494 ; No. of teachers 406 ; No. of research students 307.

MEDIA OF INSTRUCTION

In the Post-graduate Classes except in Hindi and Sanskrit, generally the medium of instruction is English, while Hindi is the medium upto the Degree level.

BUDGET (1967-68)

Income	Rs. 88,71,054
Expenditure	Rs. 1,00,23,215

UNIVERSITY OF RAJASTHAN

Jaipur

Chancellor : Governor of Rajasthan ; *Vice-Chancellor* : Dr. R. C. Mehrotra. *Registrar* : C. L. Singhal.

Total number of colleges affiliated to the University : 91 ; Total number of male students in the colleges at the end of the 1967-68 Session : 30,005 ; Total number of female students in the colleges at the 1967-68 Session was 5,275 ; Total number of male and female students in the University Departments at the end of the Session : 1,224 and 384 respectively ; Total number of male and female students in the University colleges : 3,145 and 1,559 respectively.

BUDGET ESTIMATES (1967-68) : Total Income Rs. 136·96 lakhs ; Total Expenditure Rs. 132·99 lakhs ; State Government Grants Rs. 53·21 lakhs ; University Grants Commission Rs. 8·50 lakhs ; Central Govt. (not available).

UNIVERSITY OF UDAIPUR

Udaipur

Vice-Chancellor : Dr. G. S. Mahajani, M.A., Ph.D. (Cantab). *Registrar* : R. S. Gupta, M.A.

The University though primarily established to cater to the needs of agricultural education, research and agricultural extension, now provides instruction in other disciplines also. At present the University comprises six University Colleges and seven Associated Colleges.

The total enrolment of the University for the year 1967-68 was 2,680.

The courses offered are : Pre-University in Arts, Science and Commerce, Pre-Professional (Ag.) proficiency Certificate Course in Sanskrit and Tamil, and Junior Diploma Course in Secretarial and Business Training Examination, B.A., B.Com., B.Sc., B.Sc. (Home Science), B.Sc. (Ag.), B.Sc. (Ag. Engg.), B.V.Sc. & A.H., B.A. (Hons.) M.A., M.Sc., M.Com., M.Sc. (Ag.) M. V. Sc., LL.B., B.Ed., M.Ed. & Ph.D.

The special feature of this University is the adoption of internal grading system on the pattern of the Land Grant Colleges of the U.S.A.

The total budget for 1967-68 of the University was Rs. 1,48,00,891.

* Figures indicate data excluding 7 strikes.

† The data for College education are estimated.

TAMIL NADU

CAPITAL: Madras. Area : 50,331 sq. miles ; Population : 33,686,953 (1961 Census) (males 16,910,978 ; females 16,775,975). Percentage of increase 1951-61 : 11.85. Density per sq. mile 669. Literacy 31.4 per cent—males 44.5 per cent ; females 18.2 per cent. Sex ratio : 992 females per 1,000 males. (*For more details see article "Population."*)

No. of Villages in the State : 14,742 ; Villages uninhabited : 615 ; No. of towns in the State : 338.

Districts with District headquarters in brackets : Madras (Madras), Chingleput (Kanchipuram), South Arcot (Cuddalore), Thanjavur (Thanjavur), Madurai (Madurai), Ramanathapuram (Tallakulam at Madurai), Tirunelveli (Tirunelveli), North Arcot (Vellore), Salem (Salem), Tiruchirapalli (Tiruchirapalli), Coimbatore (Coimbatore), Nilgiris (Ootacamund), Kanyakumari (Nagercoil), (Dharmapuri (Dharmapuri).

Languages spoken : Tamil, Malayalam, Telugu. The vast majority of the people is of the Dravidian race.

There are on the whole 375 Panchayat Union Councils. The total number of Panchayats in the State is 12,344.

Local Administration : The Units of Local Administration comprise (i) Madras City Municipal Corporation for Madras District, (ii) Municipalities for major towns : 84, (iii) Townships for special localities like Mettur, Bhavani-sagar, Courtallam and Kodaikanal, which are industrial areas, institutional or labour colonies or health resorts, (iv) Panchayat Unions at Development Block Level and (v) Panchayats for minor towns and villages. The Madras City Municipal Corporation Act 1919 governs the Madras Municipal Corporation in the Madras District and the Madras Municipalities Act governs the Municipalities in other Districts. The townships are governed by special provisions.

Official Language : Tamil is now the official language of correspondence in all the Departments of Government upto the district level.

Judiciary : Tamil Nadu has completely separated the judiciary from the executive.

FORESTS (1966-67)

Area of reserved forests 17,263.633 sq. kms. ; Percentage of area of reserved forests to total land area of State 13.3 ; Area of reserved lands 3,731.36 sq. kms. ; Output of timber (1967-68) 34,058.941 cubic metres ; Quantity of fuel extracted 3,77,417.013 m. tonnes ; Quantity of sandalwood extracted (1967-68) 1,165 m. tonnes.

LIVESTOCK

(Latest figures) :

Cattle 10,859,345 ; Buffaloes 2,724,017 ; Sheep 6,621,177 ; Goats 3,770,847 ; Pigs 474,891 ; Other livestock (Mules, donkeys, camels, horses, etc.) 118,684 ; Total livestock 24,568,961. Total Poultry 11,225,890.

INDUSTRIES

Chief Industries in this State are textiles, general and electrical engineering, automobile, sugar, cement, tobacco including bidi and cigar manufacture, bricks and tiles, tanning, glassware, chemicals, bicycles, leather and footwear and manufacture of utensils.

Cotton Textiles

No. of textile mills : 190 ; No. of spindles : 3,900,774 ; No. of looms : 9,346 ; Production of yarn : (1967) 8,40,000 bales ; Average number of workers employed in the mills—101,379.

Sugar

There are 15 sugar mills of which six are in the co-operative sector and nine in the private sector with a production of 2,25,907 tonnes during 1966. One co-operative sugar mill in Dharmapuri district with a capacity of 1,250 tonnes a day is in a formative stage.

Cement

The Tamil Nad Cements at Alangulam, envisages a production capacity of 400,000 tonnes per annum. A Pilot Cement plant for the manufacture of cement on small scale basis near Dalmiapuram produces 30 tonnes per day.

The six private sector cement plants produced 1,981,754 tons of cement during the year 1968.

Bicycles

The bicycle unit turned out 4,00,134 cycles during 1968. There are four factories to produce cycle parts in the City.

Fertilizers

There are 8 units which turned out 263,251 tonnes of fertilizers during 1967.

Caustic Soda : The two factories produced 69,819 tonnes in the year 1968.

EMPLOYMENT IN INDUSTRIAL SECTOR

The total number of factories registered and notified under the Factories Act 1948 in commission at the end of the year 1966 was 6,994.

Handloom (Co-operative Societies) : Number of Cotton looms in the Co-operative Societies in the State during 1965-66 was 2,27,231. There were 1,082 Weavers' Co-operative Societies and the number of weavers was 2,31,441. These Co-operative Societies together produced 108 million yards of cloth worth Rs. 13.50 crores during 1966-67. The wages paid per annum was Rs. 380 lakhs.

In the field of large scale industry, public undertakings in the Central Sector figure prominently. The aggregate capital investment in these projects up to the end of 1966 was of the order of Rs. 200 crores. During the year 1966, all the projects have progressed according to schedule.

For details on the following projects, see under the respective notes (Refer General Index for page number) : Integral Coach Factory, Perambur, Neyveli Lignite Corporation, Neyveli, Hindustan Photo Films, Ootacamund, Hindustan Teleprinters, Guindy, Surgical Instruments Plant.

SMALL SCALE INDUSTRIES

In the interest of the commercial working of the production units and some of the servicing centres, the Government have set up the Madras State Small Industries Corporation, Limited with an authorised capital of Rs. 10 crores. (See State Corporations for further details).

The establishment of an Industrial Estate at Kumbakonam sanctioned during the Third Plan has been implemented during the Fourth Plan as a spill over item.



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During 1966-67, the establishment of six conventional Industrial Estates at Kancheepuram, Mettur, Karur, Nagapattinam, Cuddalore and Hosur had been sanctioned and they are being implemented.

Functional and Ancillary Industrial Estates: During the Third Five-Year Plan, two functional industrial estates, one for ceramics at Vridhachalam and another for leather at Madhavaram were established. For locating small scale units for manufacture of different components, parts and stores required for the Heavy Pressure Boiler Plant at Tiruchirapalli, an ancillary industrial estate is being established at Triuvarambur and construction work is in progress. During 1966-67, the Government had sanctioned the establishment of one functional industrial estate for food and fruit based industries (at Bathalakundu in Madurai district) and of another functional industrial estate for Electrical Industries at Tiruvellore in Chingleput district. Functional industrial estates for instrument industry, electronic industry and drugs and pharmaceutical industry had also been sanctioned in 1967-68 for implementation.

Private and Co-operative Industrial Estates: For setting up seven private and co-operative industrial estates the Government had provided loan assistance to the tune of Rs. 108.79 lakhs up to 31st March 1968. In the above estates 104 factory units have been constructed.

MINES AND MINERALS

Output of minerals in tonnes and value in Rs. respectively in the various districts in Tamil Nadu during 1964:

Gypsum: Tirunelveli (3,776.00; 72,738); Ramanathapuram (7,660.33; 1,14,905); Bauxite: Salem (28,712; 3,58,906); Magnesite: Salem (2,01,344.00; 49,76,974); Limestone: Salem (2,06,289.25; 16,09,272); Tirunelveli (6,70,025.52; 5,02,519); Ramanathapuram (1,91,650.35; N.A.); Mica: Nilgiris (235 mds; 172); Felspar: Salem (982.00; 8,180); Soapstone: Salem (109.00; 3,972); Garnet sand: Tirunelveli (600.00; 4,800); Iron ore: Nilgiris (7,491.45; N.A.).

KHADI

Tamil Nadu has been pioneer in the development of khadi industry. The most important organizational change has been the formation of the Tamil Nadu State Khadi and Village Industries Board on a statutory basis.

The production and value of Khadi during 1967-68 were 31,74,329 metres and Rs. 143.39 lakhs respectively. Employment during 1967-68 was 93,034 spinners and weavers. The wages for 1967-68 amounted to Rs. 70.84 lakhs.

AGRICULTURE

The figures furnished below relate to the year 1965-66 and are provisional.

Total area cultivated (Gross area): 17.47 million acres (7.07 million hectares); Total area irrigated (Net area) 5.93 million acres (2.39 million hectares) or 40.45 per cent of the net area cultivated; gross area irrigated 7.85 million acres (3.18 million hectares) or 45.93 per cent of the gross area cultivated. Net area grown: 14.66 million acres (5.93 million hectares).

Classification of area (Million Hectares):—Forest 1.91.

Barren and uncultivable land 0.88; Land put to non-agricultural uses 1.35; Cultivable waste 0.69; Permanent pastures and other grazing lands 0.34; Land under miscellaneous tree crops and groves not included in the net area grown 0.27; Current fallows 1.03; Other fallow lands 0.62; Net area grown 5.93; Area of the State according to village papers 13.01.

Statement showing the area in hectares and yield in tonnes respectively under important food crops in 1965-66 was: Paddy (Rice) 25,01,943; 35,24,220; Cholam 7,59,055; 5,12,650; Millets 4,72,260; 3,60,610; Ragi 3,28,966; 2,92,300; Pulses 3,97,790; 1,01,960; Sugarcane (Gur) 1,00,990; 9,54,960; Potatoes 8,207; 57,290; Sweet Potatoes 4,048; N.A.; Tapioca 84,831; N.A.; Cumbu 4,00,230; 12,35,290; Maize 3,933; 4,240.

The State's total output of foodgrains (cereals and pulses) in 1965-66 was 50,31,910 lakh metric tons.

The principal commercial crops of the State showing area in hectares and yield in tonnes respectively under cultivation in 1965-66 were: Groundnut 9,54,942; 8,22,880; Cotton (bales of 180 kg. limits) 8,21,299; 3,00,934; Gingelly 1,18,024; 38,170; Tobacco 11,639; 17,170; Coconut (in 1000 Units) 68,697; N.A.; Coffee 23,303; N.A.; Tea 30,431; N.A.; Pepper 217; 40; Rubber 5,624; N.A.

The total cultivated area in Tamil Nadu during 1965-66 was 7.07 million Hectares, of which paddy accounted for 2.5 million Hectares.

Production of rice in 1965-66 was 35,24,220 m. tons. For 1966-67 production was estimated at 40,76,400 m. tons. The procurement target of 8 lakh tons for 1967 (January to December) has been already exceeded. The programme for 1967-68 envisaged an increase in foodgrains potential of 11.33 lakhs tons of which 6.85 lakh tons were to come through application of improved seeds.

Bananas, mangoes and citrus are the most important fruit crops of the State. For 1965-66 total area under banana, fruits of citrus varieties, mangoes, cashewnuts, other dry fruits, tapioca, sweet potatoes, onions and other vegetables, other fresh fruits etc., was 2,13,916 hectares.

Cotton and Oil Seeds: Production of cotton during the year 1966-67 was 4,46,990 lakh bales of 180 kg. lint, and that of oil seeds (groundnut, gingelly and castor) for the same period was 9,31,290 lakh tonnes.

Plantation Schemes: The important schemes of economic plantations undertaken during the Third Plan period relate to rubber plantations in Kanyakumari district, bamboo plantations in Coimbatore district and quick growing fuel plantations in the districts of Chingleput, South Arcot and North Arcot. Rubber plantation of 829 acres (1964-65), 820 acres (1965-66), bamboo plantations of 1,097 acres (1964-65), 3,988 acres (1965-66) were covered by the scheme.

FISHERIES

Estimated landings of inland fish from the various inland waters in 1967-68: 115,936 tonnes of the value of Rs. 731.17 lakhs. Estimated marine fish landings for the State in 1967-68: 204,916 tonnes of the value of Rs. 2,305.31 lakhs.

IRRIGATION

Source and area irrigated (Hectares): Government Canals 861,900; Private canals 1,119; Tanks 971,843; Tube wells 5,250; Wells, sole irrigation 632,757; Other sources i.e. springs, channels etc. 45,606; Total net area irrigated 2,518,475.

Total Land Area of State 32.15 mil. acres; Cultivated area in the State 21.93 mil. acres; Total area which is expected to be irrigated when the major and medium projects proposed under the Third Five-Year Plan are completed 6.145 mil. acres; Anticipated extra food production on completion of irrigation projects taken up during the Third Plan 94,000 tons of foodgrains; Total

investment proposed in Third Plan Rs. 2,742 lakhs. Actual expenditure during the IIIrd Plan: Rs. 3,211 lakhs.

Major Projects

Major Projects with location (Districts), estimated cost in Rs. lakhs and area benefited in acres in brackets respectively are : Lower Bhavani Project (Coimbatore and Tiruchi Districts): (1,034; 1,95,000); Mettur Canals Scheme (Salem and Coimbatore Districts: 192.91; 45,000); Manimuthar Reservoir Project (Tirunelveli District: 505; 1,03,000); Araniar Reservoir Project (105.89) Headwork of the Project transferred to Andhra State; Amravathi Reservoir Project (Coimbatore District: 324.14; 53,500); Vaigai Reservoir (Madurai and Ramanathapuram Districts: 330.00; 22,818); Sathanur Reservoir Project (North and South Arcot Districts: 258; 21,000); Krishnagiri Reservoir Project (Dharmapuri District: 202.43; 9,000); New Kathalai High Level Canal (224.58; 20,622); Pullambadi Canal Scheme: (205.88; 22,114); Vidur Project (88.94; 3,200); Pondicherry figures not available; Neyyar II Stage (109.06; 5,800).

During the III Five Year Plan, four new schemes were taken up viz. (1) Improvements to Palar Anicut System (2) Sathapur II Stage (3) Gomuki Nadhi Scheme (4) Chittar Pattanamkal Scheme in addition to the Parambikulam-Aliyar Project. Of these, the first three schemes were completed within the plan period itself. The latest stage and salient details of the Chittar Pattanamkal Scheme and the Parambikulam Aliyar Project are furnished below:—

Parambikulam-Aliyar Project: The project, started in Dec. 1958 and expected to be completed during the IVth Plan, envisages the construction of seven reservoirs and 14 miles of tunnelling, a weir, 33 miles of lined contour canal and 152 miles of line main canal. The reservoir across Parambikulam and Tunakadavu (including Peruvipallam and Tekkadi) will be in Kerala State, while the rest will be in Tamil Nadu. The project will extend irrigation facilities to 240,000 acres in Pollachi, Udumalpet, Palladam and Dharapuram Taluks of Coimbatore District. Power to an extent of 185,000 KW will be generated under this project.

The project is estimated to cost Rs. 6,753.00 lakhs.

Percentage return: 4.91 without betterment levy.

Benefits achieved to end of March 1968: Potential 147,276 acres; Utilisation 68,912 acres.

Chittar Pattanamkal Scheme: The scheme envisages:

(1) Construction of two dams (with inter-connecting channel) across two Chittar tributaries of river Kodayyar (1) 2,500' long, 72' high, and 555 Mcft capacity; (b) 3,530' long 82' high and 964 Mcft capacity. (2) Raising the F.R.L. of Pechipara and Perunchani Dams by 6 ft. by providing gates to increase the capacity of 4,530 Mcft and 2,890 Mcft respectively. (3) Excavating a feeder canal from Chittar Dam I to augment supply to the existing Kodayar Left bank canal. (4) Excavation of a new Pattanamkal channel. (5) Extending and improving the two channels taking off from Thirupparappu weir on Kodayar river. (6) Improvements to Pandya Kal, Thovala and Nilapparai channels in certain reaches and excavation of another channel from Nilappara channel. (7) Improving and lining left bank canal of Kodayar system to take the additional flow diverted from the two Chittar dams.

It is expected to be completed during the Fourth Five Year Plan.

Estimated cost: Rs. 733 lakhs; **Percentage return:** 0.75; **Ultimate benefit:** 47,000 acres.

Minor Irrigation

There are 33,000 minor irrigation sources in the State, out of which 27,000 are tanks and 6,000 spring channels. Of these sources, about 30,000 have an ayacut of more than 10 acres.

The provision for minor irrigation under III Plan was Rs. 1,280 lakhs. About 5,000 works were to be renovated during the III Plan. Of these 4,286 works were completed during the III Plan and the expenditure incurred was Rs. 1,114 lakhs.

Desilting-cum Reclamation: As against the Third Plan Programme of covering 1,750 acres of gap to be bridged and 750 acres of foreshore reclamation, the anticipated coverage by the end of the IIIrd Plan period was 2,039 acres of gap to be bridged and 1,038 acres of foreshore reclamation.

ELECTRICITY

Tamil Nadu ranks first in India in hydro-electric development in the use of electric power for irrigation purposes and by way of number of consumers.

Total capital outlay of the power schemes as on 31-3-1969: Rs. 357.77 crores; **Gross Revenue:** Rs. 49.25 crores.

Installed capacity (as on 31-10-68) of different hydro-electric projects: Pykara 70,200 KW; Moyar 36,000 KW; Mettur 40,000 KW; Papanasam 28,000 KW; Periyar 1,40,000 KW; Kundah PH I 60,000 KW; Kundah PH II 1,75,000 KW; Kundah PH III 1,20,000 KW; Kundah PH IV 50,000 KW; Kundah PH V 20,000 KW; Mettur Tunnel PH 2,00,000 KW; Sarkarpatti 30,000 KW.

Rural Electrification: Number of towns and villages and hamlets electrified as on 31-10-1968: 32,038.

Number of Agricultural pumpsets connected: 4,11,516. **Per capita consumption** 114 units.

ROADS

The total mileage at the end of the Third Plan and at the beginning of the Fourth Plan (as originally conceived) is 31,800. During the Third Plan 12 miles 3 furlongs of roads were cement concreted, 1 mile 7 furlongs asphalt concreted, 172 miles black topped, 369 miles newly metalled and 920 miles newly formed.

TRANSPORT

The Bus Transport in Madras City is Government owned. Position in the year 1969: Number of routes served by the Department: 495; Total route mileage: 21,398.6; Number of Suburban routes: 89; Number of long distance routes: 58; Fleet strength: 1,436; Number of passengers per day: Nine lakhs; Average collections (Sale of tickets): per day: Rs. 3.20 lakhs.

CO-OPERATION

The tentative outlay for the Co-operative development schemes for the Fourth Five Year Plan (1969-70 to 1973-74) is Rs. 2,872.32 lakhs under the State Plan Schemes and Rs. 112.45 lakhs under the Centrally sponsored Schemes outside the State Plan Ceiling. The allotment for 1969-70 is Rs. 566.93 lakhs under the State Plan Ceiling and Rs. 70.30 lakhs under the Centrally Sponsored Schemes.

It is proposed to step up the issue of production credit to the agriculturists year by year so as to issue loans through agricultural credit societies to the extent of Rs. 80 crores in the last year of the Fourth Five Year Plan. This will meet about 50 per cent of the total credit requirements for agricultural production in Tamil Nadu. It is

also proposed to issue long term Credit through Land Mortgage Banks to the extent of Rs. 106 crores during the entire Fourth Plan period.

Under the scheme of reorganisation of agricultural credit societies it is expected that out of about 8,600 agricultural credit societies, about 4,800 viable units will emerge. The Co-operative Central Banks will open additional branches so as to have one branch per Panchayat Union.

EDUCATION (1967-68)

General : No. of Primary Schools 31,582 ; No. of Pupils 49.27 lakhs ; No. of High Schools 2,527 ; No. of pupils 14.45 lakhs ; Expenditure on Education Rs. 5,692.90 lakhs ; No. of students benefited by mid-day meals 17.33 lakhs ; No. of schools covered by the scheme 30,009 ; Government expenditure Rs. 179.50 lakhs ; Public contribution Rs. 119.66 lakhs.

Teacher Training Schools for Men 78 ; Intake 8,713 ; Training schools for Women 63 ; Intake 6,837.

Teacher Training Colleges (1965-66) : 21 ; Intake 1,800. Schools for Handicapped (1967-68) : 21 ; Intake 2,372.

University Education (1965-66) Universities 3.

Colleges for general Education (Arts and Science) 115 ; Enrolment 92,000.

Technical Education : No. of Engineering Colleges 12 ; Intake 2,180 ; No. of Polytechnics 35 ; Intake 4,640.

Medical Education : No. of Medical Colleges 8 ; Intake per annum 1,075.

Veterinary Education : Veterinary College 1 ; Intake per annum 171 ; Intake of Assistants in Training College 250.

Agricultural Education : Intake of Students in Coimbatore College 165 ; Intake of Students in Annamalai University 75 ; Intake in Madurai Agricultural College 80.

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

FOURTH FIVE YEAR PLAN

(See under main article)

THE CORPORATION

Ripon Buildings,
Madras 3.

Mayor, Velur D. Narayanan, M.A. B.L.

Dy. Mayor, K. Govindaswamy.

Commissioner, K. J. M. Shetty, I.A.S.

Total number of elected members : 120.

Total number of co-opted members : 6.

Party position in the Corporation Council : Dravida Munnetra Kazhagam 54 + 6 ; Congress Municipal Party 52 ; Muslim League Municipal Party 7 ; Swatantra Party 3 ; C.P.I. 1 ; C.P.I.(M) 1 ; Tamil Arasu Kazhagam 1 ; Toilers Party 1 ; Communist Party 1.

Budget 1968-69

Revenue	..	..	..	Rs.	10,97,75,040
Expenditure	..	..	..	Rs.	11,12,32,080

COIMBATORE DISTRICT

Dt. Hqrs. : Coimbatore.

The Coimbatore District, next in importance to the City of Madras, has an area covering 6,024 square miles with a population of 3,154,296. It is one of the major districts in Tamil Nadu. The Anamallais (elephant hills) which form part of the District in the south have large coffee and tea plantations covering 40,000 acres and employing 40,000 workers whose annual wage bill is nearly Rs. 3 crores. Some 35 million lbs. of tea and 1,000 tons of coffee are produced. There are also cardamom and cinchona plantations. The finest teak in India is produced on these hills.

Coimbatore, the District Headquarters, is the largest industrial city in Tamil Nadu. The district has 71 textile mills, 57 of which are spinning mills and the rest weaving mills.

There are also a number of iron foundries, Coimbatore being the first in India to manufacture pump-sets for irrigation. A medium sized blast furnace is in operation. A cement factory of the A.C.C. produces 1,500 tons a day.

A branch of the Asbestos Cements Ltd. is also located at Podanur.

The 22-lakh synthetic gem factory, which is an Indo-Swiss venture, hopes to meet the full demand for synthetic gems, which are now being imported, producing in the first year alone gems valued at Rs. 20 lakhs.

The Rs. 10-crore Indo-Italian venture, South India Viscose Ltd., four miles from Mettupalayam, manufactures rayon pulp.

Another Rs. ten-crore venture with Italian aid is an aluminium factory at Mettur on the banks of Cauvery. A third is an Indo-American Venture—Rs. 10-crore paper factory at Erode.

Two factories are engaged in the production of textile machinery and parts. The ultimate plan of the factories is to manufacture all modern equipment required for textile industry.

Three factories in Coimbatore produce nut and plastic buttons.

The Regional Agricultural Research Institute caters to the needs of Tamil Nadu, Kerala, Mysore and Andhra Pradesh and is open to 40 post-graduates. The institute awards the highest degrees of M.Sc. (Ag.) and Ph.D. to successful candidates.

Other specialised institutions are the Union Government's Sugarcane Breeding Institute, the Southern Herbarium of the Botanical Survey of India and the Regional Research Station of the Indian Council of Agricultural Research for cotton, millets and oilseeds.

EDUCATIONAL INSTITUTIONS IN TAMIL NADU

UNIVERSITY OF MADRAS

Chepauk, Madras 5.

It is a Teaching and Affiliating University.

Laboratories for research in Zoology, Botany, Physics, Geology, Organic Chemistry, Biochemistry, Physical Chemistry and Textile and Chemical Technology, are

provided. There are also Departments of study and research in the following subjects : Anthropology, Indian History and Archaeology, Indian Economics, Indian Philosophy, Psychology, Mathematics, Statistics, Geography, Politics and Public Administration, Social Sciences, Constitutional and International Law, Business Administration, Sanskrit, Tamil, Telugu, Kannada, Malayalam, Hindi, Arabic, Persian and Urdu, and Indian Music.

Degrees : B.A., M.A., M.Litt., Ph.D., D.Litt., B.L., M.L., B.Sc., M.Sc. (by Exam.), M.Sc. (by thesis and Exam.), Ph.D., D.Sc., B.E., M.Sc., Engg., B.Com., M.Com., B.Sc. (Ag.), M.Sc. (Ag.), B.V.Sc., M.V.Sc., M.B., B.S., M.D., M.S., B.S.Sc., B. Pharm., B.D.S., B.Sc. (Nursing), H.A. Criminology and Forensic Science, B.Sc. (Tech.), B. Tech., M. Tech., B.T., M.Ed., B.Sc., Home Science, M.Sc., Home Science, B.Lib. Sc., B.Arch., M.A. Social Work, B. Phy. Education.

Diplomas : Gynaecology and Obstetrics, Venereology, Dermatology, Ophthalmology, Oto-Rhino-Laryngology, Radiology, Orthopaedics, Tuberculosis, Child Health, Clinical Pathology, Anaesthesia, Radio Therapy, Radio Diagnosis, Archaeology, Anthropology, Modern European Languages (French, German and Russian), Journalism, Physical Education, Social Service, Analytical Chemistry, Horticulture, Economics, Politics and Public Administration, Indian Music, Co-operation, Statistics, Geography and Business Management, Criminology and Forensic Science, Theoretical Physics, Molecular Biophysics, Mycology and Plant Pathology.

Oriental Titles : Siromani, Vidvan, Afzal-ul-Ulama. Munshi-i-Fazil, Adib-i-Fazil, Tabib-i-Kamil, Afzal-ul-Attibba, Malpan and Soppar, Sangita Siromani.

Chancellor, Governor of Tamil Nadu.

Pro-Chancellor, Minister for Education, Tamil Nadu.

Vice-Chancellor, N. D. Sundaravadivelu.

Registrar, Syed Yakub.

Total number of Colleges (Arts and Science 80).

Professional Colleges : 33.

Oriental Title Institutions : 18.

MADURAI UNIVERSITY

Madurai.

There are 74 Colleges affiliated to this University.

Vice-Chancellor, Prof. T. P. Meenakshisundaran.

Registrar, R. Perumal.

Deputy Registrar, S. Santanagopalan.

ANNAMALAI UNIVERSITY

Annamalainagar P.O., South India.

Chancellor, Governor of Tamil Nadu. *Pro-Chancellor*, Dr. Rajah Sir M. A. Muthia Chettiar.

Vice-Chancellor, (Ag.), Dr. S. P. Adinarayan.

Registrar, P. A. Sitapati.

Total number of students in the University 6,150.

Accounts and Government Grant (1966-67) :

Total income from grants from Government and other resources : Rs. 1,33,94,259.

Total estimated expenditure on salaries, contingencies buildings and equipment : Rs. 1,35,75,762.

Recurring grant receipts : Rs. 14,07,700.

The medium of instruction is English.

TRIPURA

CAPITAL : Agartala. Area : 10,680.44 sq. kilometers.

Particulars about population, literacy, density etc. are given under article "Population".

Number of towns : 6.

There is only one District—Tripura having one municipality.

The Territory is divided into ten administrative sub-divisions and 44 tehsils. The names of sub-divisions respectively are : Sadar—Khowai, Kailasahar, Dharmanagar, Sonamura, Udaipur, Belonia, Sabroom; Kamalpur and Amarapur.

The Territory has 24 police Stations and is divided into 871 revenue villages keeping in view the physical features, compactness of area as well as the facility of general administration.

LAND REFORMS

The provisions of the Tripura Land Revenue & Land Reforms Act, 1960 except those relating to prevention of fragmentation have been enforced in all areas of the Territory. Section 99(1)(c) of the Act has been enforced in all areas of the Territory except in Agartala town. This will also be done shortly with the completion of the Survey and Settlement Operation.

EDUCATION

Total No. of Colleges for general education—4; Professional & Technical Colleges—7; Music College—1; Engineering College—1; Primary Schools (Basic & Non-Basic)—1410; Middle Schools (Basic & Non-Basic)—176; Higher Secondary Schools—76; School for Vocational and Special education—Agriculture—1; Nursing Training

Centre—1; Industrial Training Centres—4; Adult Education—454; Others (Janata College, Hindi Learning Centre and School for Oriental Studies)—48; and Nursery (including Balwadi)—367.

Total number of students in Colleges for General education—12,821; Professional and Technical Colleges (Teacher's Training—619; Polytechnic—332; College for special education—Music Colleges—39 + (56); Engineering Colleges—94; Primary Schools (Basic & Non-Basic)—1,30,244; Middle Schools (Basic & Non-Basic)—22,430; Higher Secondary Schools—34,541; Schools for Vocational and Special Education—Agriculture—172; Nursing Training Centre—59; Industrial Training Centre—558; Adult (spl) Education—12,048; Others (Oriental Studies and Hindi Learning Centres)—1468; Nursery (including Balwadi) 16,219.

(Figure within brackets indicates the students belonging to other educational institutions.)

CO-OPERATION

State Co-op. Bank—1, Land mortgage Bank—1, Service Societies—178, Large sized societies—25, Multi-purpose societies—178, Small sized societies with limited liability—16, Small sized societies with unlimited liability—12, Farming Societies—3, Non Agri. Credit Societies—11, Apex Marketing Society—1, Primary Marketing Societies—14, Purchase and sale societies—23, Co-op. Wholesale Consumers stores—1, Primary Consumers societies—38, Fishery societies—8, Housing societies—2, Milk Supply Societies—2, Weavers societies—67, Other Industrial Societies—82, Processing Societies—1, Other Non-agricultural Non-Credit societies—18, Supervising Union—1, State co-op. Union—1.

ELECTRICITY

The source of power in the Union Territory of Tripura is from diesel stations located at Agartala, Ambassa, Khowai, Dharmanagar, Kailasahar, Udaipur and Bogafa. The aggregate installed capacity of the generating stations is 2,886 KW. Power facilities are now available in 53 localities. To meet the growing demand of power, the Government of Tripura has entered into an agreement with Assam State Electricity Board for purchase of power in bulk. To transmit the purchased power construction of 132 KV line has already been started. The preliminary work of the Gumti Hydro electric scheme has been completed and construction work on the main Project has already started.

PANCHAYAT

The work of setting up Panchayati Raj Bodies in Tripura was started in the Third Plan period. Total No. of Gram Panchayats—448, Nyaya Panchayats—134.

INDUSTRIES

The Industries in the Territory include cottage and small industries like handloom, weaving, carpentry, blacksmithy, sugar making, basketry, pottery, saw mill, brick manufacture, bakery, tinmithy, agricultural implements, manufacture of footwear and other leather goods, fruit canning etc. But efforts have now been initiated for starting large industries and other organised small industrial units. A 15,000 spindles spinning mill is being set up. A licence for a plywood factory has been issued. Preliminary action is also being taken for a powerloom training centre. Efforts are being made for the development of forest and agro-based industrial complexes.

TRANSPORT

Total length of roads is 1,580 Km. out of which 736 Km. are surfaced. Tripura is linked with Assam by road through the Assam-Agartala road. There are no big irrigation works in this Territory. There is a new railway link which connects Dharmanagar with Kalkalighat Railway Station in Assam. Most of the rivers in the Territory carry country boat traffic. There are three airstrips and one aerodrome in this Territory.

EMPLOYMENT EXCHANGE

Figures for 1968 (upto October): number of registrations—8,067; No. of vacancies notified—1,718; No. of candidates placed—1,394; No. of waiting list in the Live Register—17,521.

Total number of employees was 33,006 (6,606 private sector and 2,400 public sector) as on 30-6-1967.

Total number of employees was 35,037 (6,910 private sector and 28,127 public sector) as on 30th June, 1968.

HEALTH

No. of Hospitals 11; No. of Public Health Centres 22; Dispensaries 124; No. of beds 790; No. of doctors 180; No. of nurses 274; V.D. and skin clinic—1; (for each) Family planning clinic 1; Anti natal clinic 1; Eye clinic 1; Chest clinic 1; Leprosy clinic 1; Dental clinic 1; Family planning centre 32; E.N.T. clinic 1; Psychiatric clinic 1; and well Baby clinic 1 and A.R. 1.

AGRICULTURAL PRODUCTION

The Agricultural wealth of the Territory consists of rice, jute, cotton, tea and fruits, while its forests yield timber, firewood and charcoal. Paddy is the main source of revenue.

Area in '000 acres under the crop and production in '000 tonnes respectively are: Winter rice—1,17,359; 1,03,383; Autumn Rice—1,20,596, 93,581; Sesamum Rice—8,094, 6,500; Kharif Pulses—542, 249; Rabi pulses—1,920, 797; Jute—12,950, 96,000 (Bales); Mesta—12,141, 75,000 (Bales); Cotton—4,047, 3,055 (Bales); Rape and Mustard—4,654, 1,932; Sesamum—2,711, 1,125; Sugar cane (Gur)—2,970, 9,950; Potato—2,752, 15,136; Classification of area (1965-66)—Total area under forest—6,35,252 hectares; Total cropped area 3,31,791 hectares; Net area sown 2,35,401 hectares.

Livestock: Total cattle 5,88,290; Buffaloes 49,740; Sheep 2,287; Goats 1,32,212; Horses & Ponies 1,773; Pigs 36,627; Poultry 6,63,367 (1966 Census).

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel)

UTTAR PRADESH

CAPITAL: Lucknow.

Area: 113,454 square miles.

Population 7,36,72,906 (1961 census). See under "Population" for more details.

Uttar Pradesh is a member of the Central Zone of which the other member is Madhya Pradesh. The headquarters of the zone is at Allahabad.

Number of Districts: 54; Tahsils: 231; Antaram Zilla Parishads: 51; Municipalities: 151; Town Areas: 278; Notified Areas: 39; Panchayats: 72,333; Villages: 1,11,742.

Names of the eleven revenue divisions with the headquarters within brackets followed by districts comprising each: *Meerut* (Meerut): Dehra Dun, Saharanpur, Muza-farnagar, Meerut, Bulandshahr; *Agra* (Agra): Aligarh, Agra, Manipuri, Etah, Mathura; *Allahabad* (Allahabad): Farukhabad (Fategarh), Etawah, Kanpur, Fatehpur, Allahabad; *Rohilkhand* (Bareilly): Bareilly, Bijnor, Bud-aun, Moradabad, Rampur, Shahjahanpur, Pilibhit; *Jhansi* (Jhansi): Jhansi, Jalaun (Orai), Hamirpur, Banda; *Varanasi* (Varanasi): Varanasi, Mirzapur, Jaunpur, Ghazi-pur, Ballia; *Gorakhpur* (Gorakhpur): Gorakhpur, Deoria,

Basti, Azamgarh; *Kumaon* (Naini Tal): Naini Tal, Almora, Garhwal (Pauri), Tehri-Garhwal (Narendranagar); *Lucknow* (Lucknow): Lucknow, Unnao, Rae Bareilly, Sitapur, Hardoi, Kheri (Lakhimpur); *Faizabad* (Faizabad): Faizabad, Gonda, Bahraich, Sultanpur, Pratapgarh, Barabanki; *Uttarkhand* (Lucknow): Uttar Kashi, Chamoli, Pithor-garh.

(See under "Population" for area and population of Districts.)

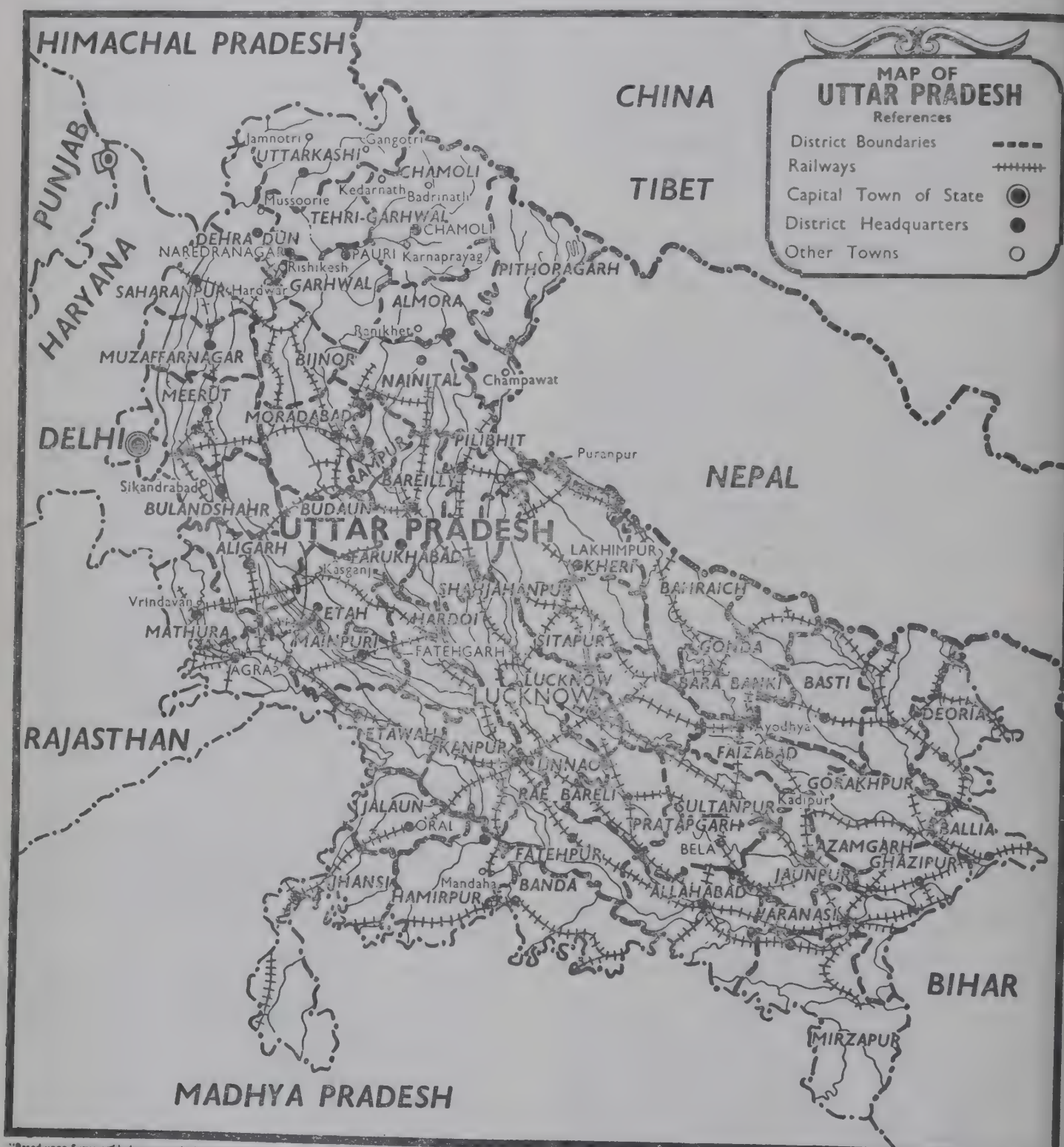
RETIREMENT AGE

The State Government has raised the retirement age of the employees to 58.

PANCHAYATI RAJ

Panchayati Raj has been established in this State. Accordingly a three-tier structure of local bodies, viz. Gaon Sabhas, Kshettra Samitis and Zilla Parishads at village, block and district levels respectively has been built up.

These different bodies shall in addition to discharging the local governmental functions, also have the responsibility of preparing plans of development and executing them in their respective areas themselves.



"Based upon Survey of India map with the permission of the Surveyor-General of India."

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AGRICULTURE

Total area cultivated 1,73,19,284 hectares (1966-67).

Main food crops : Wheat, barley, gram, rice, juar, bajra and maize.

Main cash crops : Sugar-cane, linseed, rape seed, mustard, groundnut, til, cotton and jute.

The production of food went up from 11.77 million tonnes in 1966-67 to 16.69 million tonnes in 1967-68 and was expected to be 16.80 million tonnes for 1968-69. The increase in production is attributed to the introduction of high-yielding variety of wheat, paddy and hybrids of maize, juar and bajra.

Production of sugarcane in terms of gur has also gone up from 37,90,821 tonnes in 1967-68 to 43,64,791 tonnes in 1968-69.

Oilseeds production was 15,83,669 tonnes in 1967-68 against 12,95,407 tonnes in 1966-67.

Cotton area was 63,668 hectares in 1968-69. Production was 50,114 bales in 1966-67 and 30,629 bales in 1967-68.

Jute area was 12,747 acres in 1968-69. Production was 1,54,191 bales in 1966-67 and 1,31,711 bales in 1967-68.

Potato production rose from 8,80,977 tonnes in 1966-67 to 14,62,234 tonnes in 1967-68.

(For more details see under the article on 'Agriculture'.)

FOOD AND CIVIL SUPPLIES

Foodgrains distribution through fair price shops remained in force. The number of fair price shops in the State at the end of 1968 was 5,372.

The releases of foodgrains from the Government stocks during the financial year upto March 31, 1968 were : wheat 5,42,103 tonnes ; rice 78,542 tonnes ; coarse grains 2,78,172 tonnes ; wheat products 1,64,187 tonnes ; Total issue of foodgrains was 10,63,004 tonnes.

During the year 1967-68, the State Govt. obtained from the Government of India 5,36,573 tonnes of imported wheat and 2,29,074 tonnes milo. Total imports were 7,88,018 tonnes.

The purchase of rice was made through a levy on trade. Rabi foodgrains viz., wheat, gram, barley and mixtures were procured direct from the producer through a graded levy. The total purchases during the financial year 1967-68 were as follows : (Fig. in tonnes) : Wheat 1,58,773 ; Gram 4,689 ; Barley 39,645 ; Rabi mixture 1,113 ; Rice 1,10,583 ; Juar 203 ; Bajra 81 ; Total : 3,15,087.

LAND TENURE

(Latest available)

With the abolition of zamindari, following the enforcement of the U.P. Zamindari and Land Reforms Act, 1950,

on July 1, 1952 in 48 out of the State's 51 districts, estates of nearly 20 lakh zamindars were taken over resulting in direct contact with 12,800,000 Kisans. The area of land taken over from intermediaries is about 6 crore acres. There are now only a few tracts where Zamindari has not yet been abolished.

Liquidated zamindars retain such of Sir, Khudkast and groves of which they have become Bhumidhars.

The new land tenures under the U.P. Zamindari Abolition and Land Reforms Act are : Bhumidhar, Sirdar and Asami.

The State Government have also enacted legislation to impose ceiling on land holdings and to acquire on payment of compensation surplus land with a view to providing for a more equitable distribution of land by making it available to landless agricultural labourers, cultivation on cooperative basis, conservation of part of available land resources to increase food production and building up of reserve stocks against lean years by carrying on cultivation on modern scientific lines in State-owned farms. The ceiling area applicable to a tenure-holder having a family up to five members, is 40 acres of fair quality land. In the case of a family having more than five members, every additional member will be allowed eight acres of fair quality land subject to a maximum of 64 acres of such land for the entire family. As a result of imposition of ceiling, it is estimated that about two and a half lakh acres of surplus land will be available for distribution among the landless.

Upto September 1968, the total area finally declared surplus under Section 14(1) of the Act stood at 2,36,743 acres, out of which possession was taken over of 1,84,323 acres out of which an area of 1,19,862 acres was temporarily settled. Compensation was finalised in 2,761 cases involving an amount of Rs. 98,69,168 out of which Rs. 33,81,963 were paid in cash.

IRRIGATION

Total irrigation potential created by the State works till 1967-68 was 131.87 lakh acres. It was expected to be stepped up to 134.57 lakh acres by the end of 1968-69.

Of the total irrigation potential 89.17 lakh acres will be served by major and medium irrigation works, 37.40 lakh acres by tubewells and lift schemes and 8.00 lakh acres by other minor schemes.

Lift schemes have been launched which ensure early watering facilities to fields. As a result the number of lift canals was expected to go up to 124 by 1968-69.

Work on the two major irrigation projects—Gandak and Ramganga has been expedited so as to extend irrigation facilities by 1969.

Progress of Minor Irrigation Works

Period	Masonry wells (in No.)	Repair of wells (in No.)	Borings (in No.)	Persian wheels (in No.)	Pumping sets (in No.)	Private tube wells (in No.)	Private bandhies (in No.)	Gulls in hills (K.M.)	Haug in hills (No.)	Irrigation potential created (in lakh acres)
1	2	3	4	5	6	7	8	9	10	11
IIIrd Plan	.. 2,20,724	87,811	1,06,106	1,39,541	19,677	21,545	77,300	914	1,860	20.95
1967-68	.. 71,144	16,967	75,226	40,511	24,825	30,784	11,379	293	444	12.32
1968-69 Target	.. 80,000	25,000	90,000	50,000	25,000	28,000	40,000	6,500	—	13.77
Achievement upto Dec. '68	.. 34,964	11,331	66,308	21,440	22,894	21,650	12,246*	84.46*	436	8.56
Additional Target for IVth Plan	.. 3,28,000	—	5,00,000	2,00,000	1,55,000	2,00,000	2,30,000*	3,600	4,725	74.82

* Acres.

The following amount of loan has been disbursed for M.I. Works through various agencies during Third Plan

Period, years 1966-67 and 1967-68 and those expected to be disbursed during 1968-69 and IV Plan period.

Period	Name of agency				
	G.M.F.	CD/NES	Land Dev. Bank	Other agencies A.I.C., A.R.C. & C.C. Bank	Total
	(in Rs. lakhs)	(in Rs. lakhs)	(in Rs. lakhs)	(in Rs. lakhs)	(in Rs. lakhs)
IIIrd Plan	2,921.32	1,089.65	246.61	—	4,257.58
1966-67	1,825.56	76.35	732.83	—	2,634.74
1967-68	1,381.76	6.00	1,076.51	—	2,464.27
1968-69	585.80	12.00	2,100.00	1,150.00	3,847.80
IV Plan (Outlay)	2,000.00	—	9,500.00	9,500.00	21,000.00
TOTAL	8,714.44	1,184.00	13,655.95	10,650.00	34,204.39

POWER

Generation Capacity

The total installed capacity during 1968-69 was 1,349 MW.

The 64 MW Panki power house at Kanpur has been commissioned.

Three machines of 50 MW each were pressed into service at the Obra Thermal Power House in the Mirzapur district.

Two machines of 50 MW each were also commissioned at the Harduaganj power station, raising its total capacity to 210 MW.

Work on hydro-electric schemes like Obra, Yamuna, was speeded up.

In the private sector, Renuagar Thermal Station with a capacity of 125 MW was completed and inaugurated.

Transmission System

Under the U.P. grid, the total length of transmission and distribution lines at the end of 1967-68 was 77,772 circuit kilometres which was expected to go up to 89,399 circuit kilometres by 1968-69.

The State's 220 KV system has been planned to run across the State right from Obra Thermal in the extreme South-East of the State to Yamuna Stage II in the North-West with sub-stations at Obra, Allahabad, Kanpur, Mainpuri, Harduaganj, Muradnagar, Roorkee, Chhibro, Khodri and Shamli.

Besides, a 220 KV D.C. line has been completed from Obra Thermal Power Station to Mughalsarai to meet the power requirement of north-eastern part of the State.

Some other 220 KV lines are under planning and construction.

Another important development in U.P.'s transmission system is the planning of 400 KV line for the first time in the country. It is proposed from Obra Thermal to Lucknow via Sultanpur. This line will be completed during the Fourth Plan.

Energisation of Tubewells and Pump Sets: Emphasis has been laid on energisation of tubewells and pump sets in order to help boost up agricultural production. Till 1967-68, 43,356 private tubewells and pump sets were energised. Additional 25,000 private tubewells/pump sets are expected to be electrified in 1968-69. The number of State tubewells was 8,428 at the end of 1967-68.

Rural Electrification: Under the rural electrification scheme, 4,812 villages were electrified by 1967-68.

SOME DETAILS OF THE FOLLOWING GENERATION SCHEMES

Name of Scheme	Total installed capacity M.W.	District	Estimated cost in lakhs of Rs.	When started	Completion	Remarks
Yamuna Hydrel—Stage I	84.75	Dehra Dun	8700	1961-62	1969-70	
Yamuna Hydrel—Stage II	360.00				1973-74	
Ramganga Hydrel	180	Moradabad	2764	1962-63	1973-74	
			(Power Portion)			
Obra Thermal	250	Mirzapur	4057	1962-63	1969-70	3 × 50 MW commissioned by 1968-69.
Obra Hydrel	99	Mirzapur	2424	1961-62	1969-70	
New Thermal Station at Kanpur	64	Kanpur	1051	1962-63	1967-68	Commissioned already.
Harduaganj—Stage III	100	Aligarh	2000	1963-64	1968-69	Commissioned already.
Harduaganj—Stage IV	110	Aligarh	2156	1967-68	1970-71	
Obra Thermal Extn.—Stage I	300	Mirzapur	5000	1968-69	1972-73	

LARGE-SCALE INDUSTRIES

Important Industries of the State

Sugar, cotton textiles, edible oils, hydrogenated oil, industrial machinery, machine tools, electrical machinery and electrical accessories, radio sets and transistors, television sets, cycle and cycle parts, foundries, non-rolling and foundries, leather tanning and leather goods, woollen textiles, jute textiles, glass and glass products, paper and strawboard, electric lamps, chemicals, pharmaceuticals, antibiotics, agricultural implements, fertilizers, sewing machines, electric fans, automobile parts, tractors, power tillers, railway wagons, distilleries and breweries, rayon, match-boxes, cement, food and milk products, synthetic rubber, aluminium ingots, caustic soda, camphor and allied products.

State Public Sector

Government Precision Instruments Factory, Lucknow, Government Cement Factory, Churk (Mirzapur district), Vibhuti Glass Works, Varanasi (taken over by the State Government), 'Zetor' Tractor Assembling Factory, Talkatora (Lucknow), Government Cement Factory, Dalla in Mirzapur district (under construction) and Rosin and Turpentine Factory, Clutterbuckganj (Bareilly).

Central Public Sector

Bharat Heavy Electricals, Ranipur (Saharanpur), Antibiotics Factory, Rishikesh (Dehra Dun), Diesel Locomotive Works, Varanasi, Nitrogenous Fertiliser Factory, Gorakhpur, Deep Freeze Meat Factory, Agra, Triveni Structurals, Allahabad.

REMINGTON RAND

OF INDIA LIMITED

Manufacturers of: 'REMINGTON RAND' BUSINESS EQUIPMENT

Lucknow Office: 19, Mall Avenue, Lucknow.

Phone: 28211; 28212.

Head Office: Calcutta.

Branches: Bombay, New Delhi & Madras.

Telegraphic Address: "REMINGTONS" all Offices.

Co-operative Sector (Sugar)

Co-operative Sugar Factory at Bazpur (Nainital), Baghpat (Meerut), Sarsawa (Saharanpur) and Majhola (Pilibhit). The fifth co-operative sugar factory is under construction at Aurai (Varanasi), co-operative spinning mill, Etawah.

Production

The Churk Cement Factory could produce only 1,13,988 tonnes of cement in the first five months of 1968-69 due to shortage of gypsum. With resumed supplies the factory expected to carry its production to about 3.33 lakh tonnes during 1968-69. It earned a net profit of Rs. 88.39 lakhs during 1967-68.

The Precision Instrument Factory manufactured 31,511 water meters, 453 microscopes and 3,769 pressure gauges during 1967-68 and earned a net profit of Rs. 5 lakhs.

The Vibhuti Glass Works expected to manufacture 6,000 tonnes of bottles, etc., during 1968-69. The net profit for 1967-68 was Rs. 1.50 lakhs.

The Nitrogenous Fertilizer Factory at Gorakhpur was commissioned in 1968. The Japanese aided Rs. 33-crore factory will produce one lakh tonnes of urea and ammonia each annually.

The Rs. 2-crore Triveni Structurals also went into partial production during 1968-69 for meeting its own requirements.

The Diesel Locomotive Works has produced 221 broad gauge diesel locomotives till December, 1968 and has been able to raise the indigenous content in these engines upto 80 per cent. It has started production of meter gauge diesel locomotives.

The second Government Cement Factory will commence production at Dalla during 1969 with the initial production of 1,200 tonnes of cement per day. Work on dead-burnt magnesite plant at Almora is also progressing fast.

A large Urea Fertilizer Factory will also go into production during 1969 at Kanpur at a total cost of Rs. 65 crores. In participation with a U.K. firm, it will produce 4.50 lakh tonnes of urea annually.

The Aluminium Factory at Renukoot (Mirzapur) is raising its annual production capacity by 60,000 tonnes at a cost of Rs. 55 crores.

The 71 sugar mills in the State produced 7.50 lakh tonnes of sugar during the 1967-68 crushing season.

New Incentives Offered by State Governments

During, 1968-69, the Government announced following concessions and incentives for stepping up the industrialisation: 1. Sales tax holiday for three years for new industries and also to existing units under certain conditions; 2. Exemption from sales tax of parts and components used by 23 industries; 3. Rebate of 15 per cent in power charges to new industrial units for three years; 4. Exemption from Octroi duty of industrial equipment, raw materials and building materials throughout the State; 5. Finance and developed sites or sheds on more liberal terms.

Small-Scale Sector

Total number of small-scale industrial units at the end of 1968-69 was 19,681. U.P. occupies the second position in the country in the matter of defence supplies.

Industrial Estates

Out of the 848 allotted industrial sheds in the 76 industrial estates established all over the State, 586 sheds have gone into production. The working units employ about 10,000 persons and produce goods worth Rs. 4.50 crores annually.

INTERNATIONAL COMPUTERS AND TABULATORS (INDIA) PRIVATE LIMITED

Electronic Data Processing Equipment, and
Electronic Computers

Mull Building, Ashok Marg, Post Box 158, Lucknow I.

Manager: Mr. S. P. Bhatia, Maint.

Manager: Mr. S. N. Mehtani.

Head Office: Magnet House, Dougall Road, Ballard Estate,
Bombay I.

Tel. No. 262991-263264.

Handloom

This industry provides employment to more than 10 lakh people and produces one-third of the total requirement of cloth in the State. There are about 2,88,400 registered handlooms in the State. During the period 1966-69 (upto February, 1969) the production has been 2,451.21 lakh metres.

The number of industrial co-operatives increased to 6,130 at the end of 1967-68.

TRANSPORT

Total mileage of roads : 38,062.

Mileage of metalled roads: 15,180 under the P.W.D. and 1,716 under District Boards. Total mileage of metalled roads was expected to rise to 17,842 miles at the end of March 1969. Of this surface road mileage, 1,529 miles comprise National highways, 4,789 miles state highways and 11,524 miles major and other district roads.

Number of passenger service buses: 4,225 (excluding roadways vehicles). Number of goods carrying lorries, trucks: 15,712. Number of taxis: 784 (October 1967).

Fleet of motor vehicles (roadways fleet): Passenger buses 3,879; trucks 559; taxis 113. The roadways fleet was expected to be 4,750 at the end of March 1969.

The State owns a transport service under the name of U.P. Government Roadways, managed as a Government Department with the Transport Commissioner as the head.

The State is divided into 12 regions each being in the charge of a General Manager.

The headquarters of the Transport Commissioner is Lucknow.

Capital invested : Rs. 18.06 crores (1967-68).

Number of routes operated 820. Length of routes : 74,500 Kms. Road length covered : 21,000 Kms. (March 1968).

Total kilometres covered (1967-68) — over 21 crores.

Number of vehicles owned by authority on Oct. 31, 1967 : Buses : 3,958 ; Trucks : 530 ; Taxis : 113.

Number of nationalised city bus services : 59.

Cities where Roadways operate city bus services : Kanpur, Allahabad, Bareilly, Lucknow, Varanasi, Agra, Meerut, Dehra Dun, Farukhabad, Haldwani, Gorakhpur and Faizabad.

Names of places where suburban bus services operate : Mathura-Vrindaban, Fatehgarh-Farrukhabad and Dehra Dun-Premnagar-Clement Town.

The U.P. Roadways operate on a number of inter-State routes connecting all border States.

Roadways have 76 depot workshops and regional workshops undertaking maintenance and repairs of Roadways fleet.

Special tourist buses have been provided to carry tourists to places of interest and scenic beauty.

Number of passengers carried by Roadways buses (1966-67) : 16,45,79,486. City Bus services — 4,18,33,000. No. of persons employed (March 1968) 28,000.

Rates of bus fare for lower class : 2.75 paise per passenger per kilometre.

Goods service has not been nationalised.

The U.P. Government proposes to nationalise 4,000 miles of road transport during the next five years to bring a total of 14,000 miles of road transport under nationalisation by 1974.

HOUSING

(See main article "Housing")

* Figures are for 1963.

MEDICAL AND PUBLIC HEALTH (1967)

Number of beds in State Hospitals 33,965 ; Number of Doctors in Government service : Allopaths and Homoeopaths 2,704* ; Number of Doctors registered in U.P. 10,792 ; Number of registered Nurses 3,596 ; Number of registered Vaidas and Hakims 65,098 ; Number of Vaidas and Hakims in Govt. Service 801*.

State Budget for medical department (1968-69) : Plan — Rs. 2,23,56,900 ; Non-Plan — Rs. 8,73,54,900.

State Budget for Public Health (1968-69) : Plan — Rs. 8,63,16,500 ; Non-Plan — Rs. 2,15,92,200.

Number of T.B. Isolation Hospitals — 5* ; Number of T.B. hospitals—13 ; Number of T.B. clinics — 59* ; total number of beds in T.B. Sanatoria and clinics — 2,136*.

Fifty of the clinics have been established at district headquarters and nine at Tehsil level at Ghaziabad, Firozabad, Chandausi, Balrampur, Khalilabad, Mahrajganj, Mau (Azamgarh) and Rishikesh. Besides, 12 other general clinics are functioning in the State.

Number of Leprosy Asylums — 19* ; At present 14 Leprosy Control units are functioning in the State. These are at Dehra Dun, Mirzapur, Gorakhpur, Moradabad, Kheri, Basti, Bahraich, Barabanki, Azamgarh, Gonda, Deoria, Jhansi, Jaunpur and Ballia. Each unit is supposed to serve a population of 75,000. Besides, two smaller units function at Dharchula and Barkote in Uttarakhand division. In addition 30 Government survey, education and treatment units are also functioning. There are 20 such institutions in the State which provide indoor treatment to lepers. The number of beds is 1,753.

In Agra a Leprosy Centre named Jalma has been established with Japanese help.

The Employees State Insurance Scheme is in operation in Kanpur, Agra, Lucknow, Saharanpur, Allahabad, Rampur, Varanasi, Aligarh, Hathras, Bareilly, Shikohabad, Modinagar, Ghaziabad, Mirzapur, Sahajanwa, Firozabad, Churk, Sitapur, Ghazipur, Ujhani, Sasni, Balawali, Pipri, Hapur, Hirangaon, Mathura, Moradabad, Meerut city, Jhansi, Izzatnagar, Roorkee and Mohan Nagar (Meerut) and in 1966 about 2,70,000 industrial workers were insured benefiting 10,26,300 persons (insured workers and their families).

At present 80 dispensaries including nine mobile dispensaries are functioning. Three ambulances (two at Kanpur and one at Modi Nagar) are functioning. In addition, there are two Employees State Insurance hospitals at Kanpur which have 3,929 beds and 10 whole time specialists.

PEST CONTROL (INDIA) PRIVATE LTD.

Consulting Entomologists—Termite Control
—Disinfestation—Fumigation Service.

Address : 15, Park Road, Allahabad 2. Phone : 3642.

Head Offices : Yusuf Building, Mahatma Gandhi Road,
Bombay 1.

For further details please see Bombay Commercial Firms
Section.

FAMILY PLANNING

An amount of Rs. 4.6 crores was made available in the State Budget for 1968-69 to intensify the family planning programme in the State through its three main wings, viz. Mass Communication-cum-Education, Training and Service. There are 875 Rural Family Planning Centres and three Regional Family Planning Centres. District Family Bureaux have been established in each district

and a whole-time District Family Planning Officer has been made responsible for the success of the programme.

Since the inception of the programme 8,63,131 persons have availed of IUCD/Sterilization facilities till Jan. 31, 1969. Of these 5,31,946 persons got themselves sterilised and 3,31,185 women adopted the loop method.

LABOUR

Industries in which minimum wage is fixed : rice, flour, dal mills, tobacco (including bidi making), manufacturing cinchona, rubber, tea or coffee plantation in Dehra Dun District only, oil, road construction or building operations, stone breaking or stone crushing, lac manufactory, tanneries and leather goods manufactory, public motor transport, woollen carpet industry, hotel and restaurant, printing press, metal industry and iron foundries.

There occurred 148 strikes till Oct. 1968 involving 33,914 workers resulting in a loss of 4,31,456 man-days.

State Govt. Acts for the welfare of the labourers :

(1) U.P. Shops and Commercial Establishment Act (1947), (2) U.P. Industrial Disputes Act, (3) U.P. Maternity Welfare Act, (4) U.P. Sugar and Alcohol Industry Labour Welfare and Development Fund Act, (5) U.P. Industrial Housing Act (1955) and (6) U.P. Industrial Employment (National Holidays) Act.

Trade Unions : 1,465 (Oct. 1968).

Labour Welfare Centres : 64 (Oct. 1968).

Under subsidised Industrial Housing Scheme 27,899 houses were constructed till Oct. 31, 1968. Under the sugar factory labour housing scheme, 1,686 houses were constructed in 63 sugar mills.

Provident Fund Scheme covers 3,28,392 employees in 2,712 factories. Employees' State Insurance Scheme has been enforced in 38 industrial towns, covering 3,28,972 employees. Till Oct. 1968, the number of living old age pension holders was 15,878.

Number of employment exchanges including seven University employment exchanges and 11 regional and sub-regional exchanges is 67. The training wing of the State Directorate of Employment and Training runs 62 institutes for imparting training in engineering and vocational trades.

The Directorate also runs schemes for collection of employment market information and vocational guidance.

SOCIAL WELFARE DEPARTMENT

The department looks after the administration of Suppression of Immoral Traffic in Women, Children's Act and Probation Act. It runs a number of Centres for destitute women and children.

The department runs five homes at the State level and 23 centres at the district level for the after-care treatment of destitute women.

The Samaj Kalyan Samiti Scheme is one of the most important schemes of the Department run for creating community consciousness in urban people in all district level headquarter cities.

EDUCATION (1968-69)

Total General Education Budget — Rs. 55.07 crores.

Primary Education : No. of Primary schools 61,050 ; No. of boys 62,48,000 ; No. of girls 35,97,000 ; No. of teachers 1,86,293.

Steps were taken to open 150 more junior basic schools and to appoint 6,522 additional number of new teachers.

Secondary Education : No. of secondary schools 2,969 ; No. of boys 7,71,000 ; No. of girls 1,59,000 ; No. of teachers 91,295.

University Education : No. of Universities 11 ; No. of Degree Colleges 215 ; Enrolment in Universities 42,000 ; Enrolment in Degree Colleges 1.08 lakhs ; No. of teachers in Universities 3,049 ; No. of teachers in Degree Colleges 5,397.

Grants totalling Rs. 20 lakhs were given to Universities and bright students in indigent circumstances were given bursaries. The number of bursaries has been raised to 400.

(See also *Educational Statistics 1965-66*).

JUDICIARY

The scheme of separation of Executive from Judiciary, which is one of the directive principles of the Constitution, was started in 1949. It was gradually extended to other districts, and with effect from Oct. 2, 1967 the scheme has been put in operation in all the districts of the State, except in the seven hill districts.

ADMINISTRATIVE PERSONNEL

(See under *States Administrative Personnel*)

UNIVERSITIES

Agra University

Chancellor : Governor, Uttar Pradesh (*Ex-officio*) ; **Vice-Chancellor :** Shital Prasad ; **Registrar :** Dr. M. G. Gupta, M.A., D. Litt.

Affiliated Colleges 60 ; Students 40,000 (approx.).

BUDGET ESTIMATES FOR 1967-68

Total income : Rs. 28,14,354.

Total expenditure : Rs. 41,61,740.

Aligarh Muslim University

Aligarh

Chancellor : Nawab Saidul Mulk Dr. Hafiz Mohd. Ahmad Said Khan of Chhatari ; **Vice-Chancellor :** Dr. Abdul Aleem ; **Pro-Vice-Chancellor :** Mohammed Fazlur Rahman ; **Registrar :** Dr. Y. D. Khan.

REVISED BUDGET ESTIMATES FOR 1967-68

(Normal)

	Rs.
Anticipated income	1,97,68,000
Anticipated expenditure	1,97,68,000
Central Govt. Grants	1,73,97,000
Income from other sources	23,71,000

REVISED PLANNED DEVELOPMENT (1967-68)

	Rs.
Actual Income	94,76,513
Actual Expenditure	93,07,435

The medium of instruction in all classes of the University is English.

From the academic year 1968-69, the Faculty of Arts was bifurcated into Faculty of Arts and Faculty of Sciences.

Departments of Faculty of Arts : Arabic, Persian, Urdu, Sanskrit, Hindi, English, Philosophy and Islamic Studies.

Deptt. of Faculty of Social Sciences : Economics, Education, Political Science, Psychology, History, Library Science, Sociology and Linguistics.

The following new Departments were created in 1969 : Department of Library Science and Department of Sociology.

The University adopted Semester Courses in the Faculties of Arts, Science and Commerce from the 1967-68 Session. From the 1968-69 Session Semester Courses have been introduced in the Faculty of Law for the LL.B. and LL.M. Courses and the three-year LL.B. (Honours) Courses have been introduced.

Allahabad University

Chancellor : Governor of U.P. ; Vice-Chancellor : Prof. A. B. Lal, M.A. ; Registrar : K. P. Mohiley, M.A.

Unitary, teaching, residential; Colleges 6; Students 8,579.

REVISED BUDGET ESTIMATES, 1968-69

Total Income	Rs.	20,49,984
Total Expenditure	Rs.	81,33,247
State Govt. Grant: Recurring	Rs.	60,83,263

English and Hindi are the media of instruction for graduate course and English is the medium of instruction for post-graduate course.

Banaras Hindu University

Varanasi 5.

Chancellor : His Highness Dr. Vibhuti Narain Singh ; Vice-Chancellor : Vacant ; Rector : Dr. H. P. Dwivedi ; Registrar : Dr. K. N. Lal, D.Sc.*

Residential: Faculties 11, Constituent Colleges 3; Affiliated Colleges 4; Students 9,610 (1967-68).

BUDGET ESTIMATES FOR 1968-69

Income : Rs. 76,06,040.
Expenditure : Rs. 3,24,37,870.

(These figures exclude Development grant and Block grant receivable by the University.)

Gorakhpur University

Chancellor : Governor, Uttar Pradesh (Ex-officio) ; Vice-Chancellor : Rev. P. T. Chandi, M.A. (Madras), M.Sc. (London). ; Registrar : Dr. Bholendra Singh.

Teaching and Affiliating :

Constituent College : 1.
Affiliated Colleges : 53.
Students : 19,754.

BUDGET ESTIMATES FOR 1968-69

Total Income : Rs. 52,15,318.26.
State Govt. Grant : Recurring Rs. 25,72,045.
State Govt. Grant : Non-recurring Rs. 2,96,252.

The medium of instruction in all undergraduate classes of the University is Hindi and for post-graduate classes English and Hindi.

Kanpur University

Established on January 5, 1966. It is an affiliating & Examining University at present.

Chancellor : Gopala Reddy, Rajya Pal, Uttar Pradesh. Vice-Chancellor : Acharya Jugal Kishore, M.A. (Oxon). Registrar : Prem Narain Mehrotra.

Number of Affiliating Colleges : 49.
Students : 50,000—approximate.

Budget (1967-68)

Receipts	Rs.	16,65,363.20
Expenditure	Rs.	14,17,689.83
Development Grant from the State Government :		
(a) Non-recurring	Rs.	4,03,000.00
(b) Maintenance grant	Rs.	15,000.00
(c) Scholarship grant	Rs.	1,07,635.00

Lucknow University

Residential, Unitary and Teaching University.

Chancellor, Governor of Uttar Pradesh ; Vice-Chancellor : Dr. M. B. Lal, M.Sc., D.Sc. (Luck.), D.Sc. (Edin.), F.N.I., F.A.Sc., F.Z.S.I. ; Registrar : P. C. Mital, M.A. ; Librarian : Dr. Baljit Singh, M.A., LL.B., Ph.D., D.Litt.

Number of students : 17,951 including 4,369 women students and 486 research scholars for 1966-67.

The medium of instruction in the University is Hindi.

Budget (1966-67)

	Rs.	
Income (estimate)	63,38,199	
Actuals	52,04,830	
Expenditure (estimate)	63,38,199	
Actuals	52,87,458	

Meerut University, Meerut.

Founded : 1965

Chancellor : Dr. B. Gopala Reddy ; Vice-Chancellor : Dr. R. K. Singh, M.A., LL.B., D.Ed. (Harvard) ; Registrar : Dr. S. K. Goswami, M.Sc., Ph.D., F.G.S.

It is an affiliating university with provision for teaching Departments.

Number of Affiliated Colleges : 55
Number of Students : Affiliated Colleges 30,456.
Number of Teachers : 1,772.

Budget (1967-68)

Total Income : Rs. 29,46,771.46
Total Expenditure : Rs. 8,09,601.90.

Roorkee University

Roorkee

Chancellor : Governor of Uttar Pradesh ; Vice-Chancellor : M. R. Chopra ; Registrar : V. N. Kak, M.A.

Unitary, Teaching and Residential. Students (1968-69) : Full time 2,279 (Men 2,215, Women 64). New Admissions 449 (Men 439, Women 10). Post-Graduate : Full time 332 Men, 7 Women, partime 1 Man.

Students from other countries — 11 (Nepal 10, South Africa 1).

The medium of instruction is English.

Budget (1967-68)

Income :	Rs.	
Grant received from Central Govt.	3,60,449.00	
Grant in aid from State Govt.	60,88,950.00	
Grant received from U.G.C.	51,40,645.49	
Grant received from C.S.I.R., New Delhi	7,44,523.86	
Other sources (Students fee, rent income from buildings and miscellaneous income)	12,38,000.00	
Total	1,35,72,568.35	

Expenditure : Rs. 1,38,29,990.00.

* It is reported that he has resigned.

U. P. Agricultural University Pant Nagar (District Nainital).

This University set up on the model of the Land Grant Colleges of U.S.A., aims at developing rural leadership and competence.

The University, which is the first of its kind in the country, has four constituent colleges and one school of basic sciences & humanities—an Agricultural College, a College of Animal Husbandry and Veterinary Sciences, Pant College of Technology and a Post-Graduate College. The University provides comprehensive education on

Agriculture and allied subjects on the basis of an integrated system of teaching, research and extension. It has a capacity to train 400 candidates per year for undergraduate and 155 for Post-graduate studies—10 per cent of the seats being specifically reserved for students from outside the State.

Budget (1968-69)

	Rs.
Recurring	89.69 lakhs.
Non-recurring	113.51 lakhs.

Vice-Chancellor: D. P. Singh, I.A.S.; Registrar: O. P. Mohan.

WEST BENGAL

CAPITAL: Calcutta. Area: 34,194 sq. miles; Population: 34.93 million (1961 Census). Percentage of increase 1951-61: 32.79. Density: 1,032. Sex ratio 878 females per 1,000 males. Literacy: 29.3 per cent.

There are three Divisions in the State, the Burdwan Division, the Jalpaiguri Division and the Presidency Division.

The Districts in the Divisions with their headquarters in brackets are as follows: *Burdwan Division:* Bankura (Bankura), Birbhum (Suri), Burdwan (Burdwan), Hooghly (Chinsura), Midnapore (Midnapore), Purulia (Purulia). *Jalpaiguri Division:* Cooch-Behar (Cooch-Behar), Darjeeling (Darjeeling), Dinajpur* (Balurghat), Jalpaiguri (Jalpaiguri), Malda (Malda), Murshidabad (Berhampur), Nadia (Krishnagar), 24-Parganas (Alipur). Calcutta and Howrah comprise the Presidency Division.

Panchayats: The rural area of West Bengal has been covered by a network of Gram and Anchal Panchayats. The total number of Gram Panchayats in the State is 19,662 and that of Anchal Panchayats 2,926. The State Government has dissolved all the 15 zilla parishads and about 325 anchalik parishads in the State with immediate effect from May 1969.

The abolition order had been issued under the West Bengal Zilla Parishads (Amendment) Ordinance promulgated recently.

The Government had already appointed administrators for the dissolved bodies to act until they were reconstituted under a revised constitution.

The State Cabinet has decided to separate the executive from the judiciary. A beginning in this direction has already been made.

POPULATION

(See under "Population").

AGRICULTURE

Acreage and production of principal crops in 1966-67 are as follows:

	Production (tons)	Area (Acres)
Rice	4,748,100	11,487,300
Wheat	44,800	136,000
Sugarcane	1,279,400	73,000
Jute	2,852,600†	1,041,300

† Bales.

Land Tenure: All rent-receiving interests in agricultural lands vest in the State and the numerous tenants and

sub-tenants, as the case may be, now hold land directly under the State Government. All forests too are now managed directly by the Government.

There are roughly 1.28 million acres of cultivated land in the State, of which, according to preliminary but by no means accurate statistics, only 400,000 acres will be found surplus for redistribution among the tillers of the soil.

Sonarpur-Arapaneh Scheme: The Sonarpur-Arapaneh-Matla Drainage Scheme of reclaiming vast water-logged tracts 105 sq. miles in area, with powerful pumping plants, is the first of its kind in India. Under the first part of the Scheme, a submerged area of 23,360 acres has been reclaimed for cultivation. The total yield of paddy from these large tracts of land was 21,000 maunds.

Bagjola Drainage Scheme: Rs. 104-lakh Bagjola Drainage Scheme is intended to improve the drainage of 116 square miles of area. The scheme when completed will reclaim 25,600 acres of water-logged lands and render them fit for cultivation, which will result in annual additional yield of 12,091 tons of paddy and 1,619 tons of rabi crops.

FORESTS

(See under article on "Forests").

IRRIGATION

Area under irrigation: over 35 lakh acres.

Some individual schemes with total cost in Rs. lakhs and area in acres benefited (kharif season) respectively are as follows: Mayurakshi Reservoir 20.46.60; 560,000; Harahatuganj Drainage 12.94; 16,000; Berai Canal 21.78; 5,000; Jibanti-Banki 3.11; 6,400; Jampoi 0.51; 800; Soadighi Gangakhali 24.84; 29,400; Jhargram 9.74; 5,000; Suvankar Daura 17.57; 6,000; Trans-Damodar 4.15; 32,900; Saraswati 6.25; 7,100; 20 Minor Schemes 5.34; 45,292; 52 Procurement Bonus Schemes 21.62; 87,717; 23 Emergency Schemes 13.84; 62,880; 5 New Minor Schemes 1.86; 13,676; Excavation of Nonagang river 4.25; 4,860; Sonarpur-Arapaneh-Matla 138.72; 46,400; Bagjola-Ghuni-Jatragachi 108.93; 25,600; Improvement of Kamakhya Khal 3.52; 3,840. This does not include the area under river lift and tube-well irrigation schemes.

DAMODAR VALLEY CORPORATION

(See under "Irrigation").

TWO DEVELOPMENT SCHEMES

The Ganga Barrage Scheme: Work in connection with the Ganga Barrage, also called Farakka Barrage Scheme, is now in progress.

* Also called West Dinajpur.



Benefits expected from the barrage: 1. Improvement of the Calcutta Port; 2. Provision of a direct railway and road link between the northern and southern parts of the State; 3. Provision of an inland water route entirely through the Indian Union starting from Calcutta and going up to Bihar and Uttar Pradesh and ultimately to Assam.

POWER

Jaldhaka Project in West Bengal was taken up during the year 1961. The other scheme in the Third Five Year Plan is Bandel Super Thermal Power Station comprising four 82.5 Mw turbo alternator sets with a maximum continuous rating of 330 Mw. The power station was pressed into commercial service on Jan. 1, 1966.

Jaldhaka Hydro-Electric Scheme: Tapping of river Jaldhaka in north Bengal to generate 27 Mw of power at the first stage and 9 Mw at the second stage. The first unit was commissioned in April 1967 and the second unit was installed in August 1967. **Baluxan Hydro-Electric Scheme:** Harnessing of river Baluxan in Darjeeling District. **Suburban Electrification Scheme:** Total Plan provision for colliery electrification, tube-well irrigation, Central Testing laboratory and suburban electrification schemes: Rs. 29.21 lakhs. **Durgapur Power Station:** With the increase in power demand both in public and private sectors around Durgapur, the State Government was called upon to expand the power station by installing 3 × 75 Mw and 1 × 150 Mw turbo-alternator sets. These units are designed for burning washery middlings. Two Units are already in operation.

Development in Transmission & Distribution System: With the beginning of the Third Five Year Plan, the West Bengal State Electricity Board started erecting 132 KV lines mainly for the purpose of supplying power to the Eastern Railway for track electrification in the suburban areas. A transmission scheme was undertaken under which 132 KV lines were drawn from Bandel to Dharampur from where a feeder line was extended upto Ranaghat to connect the North Calcutta Grid. Another radial feeder was extended to Ashokenagar and the third one on the southern direction to Titagarh. Power supply to Eastern Railway at Ranaghat, Ashokenagar and Titagarh was arranged. A double circuit 132 KV lines were also drawn from Bandel to Howrah and Liluah for bulk supply to the Calcutta Electric Supply Corporation Ltd. To arrange for bulk supply to the Farakka Barrage Project, 66 KV lines were further extended from Beldanga to Farakka. In North Bengal, extensive 66 KV line was drawn from Jaldhaka to Siliguri on the West and Jaldhaka to Cooch-Bihar on the East covering the entire district of Jalpaiguri, Cooch-Bihar and Darjeeling. On the distribution side, hundreds of miles of 33 KV lines and thousands of miles of 11 KV lines were drawn for bulk supply to a number of high voltage consumers and power supply to various towns and villages and hundreds of agricultural deep tube-wells.

INDUSTRY

West Bengal ranks second among the major industrial States of India. With only 3 per cent of the country's area, the State shares 8 per cent of India's population. Her share in the manufacturing labour force is even more—22.6 per cent.

Principal industries of the State: Jute, tea, coal, cotton, textiles, paper, rubber, engineering, etc.

No. of registered factories: 6,126 (1967). No. of workers: 8,31,990 (1967).

* Relates to (1) sugar, (2) cocoa, chocolate and sugar confectionery, (3) alcohol, (4) wine industries (5) breweries and malt manufacture, (6) made-up textile goods except wearing apparel, (7) leather products except footwear and other wearing apparel, (8) vegetable and animal oils and fats (except edible oil), (9) aircraft, (10) transport equipment, n.e.c. (11) photographic and optical goods, (12) watches and clocks, (13) jewellery and related articles, (14) musical instruments, & (15) gas, both in West Bengal and all-India, and to (a) canning and preserving of fruits and other sea foods (b) footwear, (c) petroleum refineries and (d) cement in all-India only.

No. of jute mills: 81 in 1967 (employing about 2,32,000 workers, 1967).

Total acreage under jute cultivation in West Bengal: 1,041,300.

No. of cotton mills: 41 (Average no. of workers employed daily in all shifts 46,285; spindles 9,33,754; looms 9,944; raw cotton consumed in bales of 180 kgs. 27,519) (March 1968).

A sleeper casting factory with an output of 50 tonnes of sleepers per day was to go into production shortly.

No. of tea gardens: 285 (250,000 workers). West Bengal produces about 90 million pounds of tea.

No. of coal mines: 228 (about 1,22,000 workers daily on an average). The total output of the West Bengal coal mines is about 16.3 million tons.

No. of paper mills: 8 (about 10,400 workers).

Main small scale industries: Handloom weaving, sericulture and silk, brass and bell metal, hand made paper, plastic and salt industries.

No. of jute mills engaged in handloom weaving: 1,01,000.

Principal centres of handloom weaving: Santal (Nadia), Santinketan (Birbhum), Rajshahi, Dooars (Hooghly).

Principal silk industry Districts: Malda, Murshidabad and Bankura.

The following is the gross group-wise value in lakhs of rupees of industrial output of the State in 1968 (latest available) and the percentage of the industrial output respectively: Textiles 250.88; 20.54; Iron and steel 208.73; 35.61; Rail-road equipment 80.50; 54.67; Miscellaneous food products 80.27; 16.26; Electrical machinery 65.32; 28.72; Machinery, except electrical 60.93; 28.13; Rubber products 51.97; 48.54; Electric light and power 46.46; 16.01; Grain mills 40.88; 28.55; Non-ferrous metal 40.10; 41.12; Miscellaneous chemical products 39.22; 19.34; Manufacture of motor vehicles 34.78; 16.94; Metal products, except machinery & transport equipment 30.73; 28.91; Paper and paper products 28.37; 20.61; Basic industrial chemicals including fertilizers 17.81; 7.80; Printing, publishing, etc. 14.77; 17.04; Miscellaneous manufacturing industries, n.e.c. 14.38; 38.80; Tobacco manufactures 13.53; 11.28; Paints, varnishes, etc. 10.27; 43.06; Ship-building and repairing 7.77; 48.32; Glass and glass products 7.65; 27.82; Motor cycles and bicycles 6.47; 16.90; Miscellaneous products of petroleum and coal 5.73; 22.81; Bakery products 5.21; 38.71; Textiles, n.e.c. 4.42; 4.45; Professional and scientific instruments 3.26; 24.57; Cordage, rope and twines 3.49; 77.04; Repair of motor vehicles 3.31; 8.62; Pottery, china and earthenware 3.28; 32.96; Furniture and fixtures 3.14; 18.95; Non-metallic mineral products, n.e.c. 3.10; 7.86; Manufacture of dairy products 2.42; 8.01; Saw mills, etc. 2.16; 12.49; Tanneries 2.16; 11.84; Structural clay products 1.94; 6.82; Cork and wood products, n.e.c. 1.21; 42.31; Knitting mills 1.11; 10.57; Soft drinks and carbonated water 0.2; 18.93; Wearing apparel (except footwear) 47; 6.62; Canning & preserving of fruits and vegetables 42; 9.21; Wooden and cane containers 18; 10.40; Others* 11.05; 2.37; Total (All industries) 1,217.94; 21.78.

LABOUR

No. of registered trade unions: 3,310 (1967).

No. of members of trade unions: about 1,200,000.

The Employees' State Insurance Act, which provides for sickness and other medical benefits, covers about 800,000 insured employees in Calcutta, Howrah, Hooghly and 24 Parganas. Their 2,400,000 family members are entitled to only medical benefits.

The Employees' Provident Funds Act covers 7,059 factories/establishments. Out of 1,429,654 employees employed in these factories/establishments at the end of 1967, 1,179,468 were regularly subscribing to the statutory fund.

No. of labour welfare centres run by Government : 46.

No. of tenements completed under the Subsidised Industrial Housing Scheme : about 11,938.

About 445,673 persons, including 31,392 women, were on the live register of Employment Exchanges at the end of 1967 in West Bengal.

Over 33,076 persons secured jobs through Employment Exchanges in the State during 1967.

ROADS

There are six national highways in West Bengal: Calcutta-Delhi (152 miles), Calcutta-Bombay/Madras (90 miles—common alignment in West Bengal), Bihar-Assam (225 miles), Siliguri-Gangtok (35 miles), Calcutta-Siliguri (203.5 miles) and Calcutta-Bongaon (43 miles).

Superior type of extra-municipal roads, maintained by P.W.D. and local bodies are 6,500 miles while the interior motorable type is 13,000 miles.

The estimated expenditure in the Third Plan on roads and bridges was about Rs. 21.56 crores.

State Transport

The State managed transport in West Bengal comprises three Units e.g. (1) Calcutta State Transport Corporation, (2) North Bengal State Transport Corporation and (3) Durgapur State Transport Board.

Calcutta State Transport Corporation: Latest figures available (June 30, 1968). No. of buses : 1,130, of which an average of 620 buses run daily. It employs nearly 13,750 persons of whom about 75 per cent are persons displaced from East Pakistan. It carries 11 lakh passengers daily on 29 routes. The average income per bus is Rs. 244 daily.

North Bengal State Transport Corporation: No. of buses : 206; trucks : 35. No. of persons employed : 1,500. No. of passengers carried daily : 48,000. The average monthly earning : Rs. 10.2 lakhs.

The Durgapur State Transport Board: No. of buses : 100. No. of persons employed : 700. Average No. of persons daily carried : 30,000. Average monthly earning : Rs. 2.9 lakhs.

COMMUNITY DEVELOPMENT PROJECTS

The Community Development Projects now cover almost the entire population.

(See also main article "Community Development Projects").

EDUCATION

(See article on "Educational Statistics (1965-66)").

HEALTH (1967)

(Figures provisional. Per 1,000 population).

Birth rate : 40.8 ; Death rate : 13.6 ; Infant mortality : 120.0 ; Maternal mortality : 2.6 ; Death rate from T.B. : —50.0 ; Death rate from Cholera : —98.3 ; Death rate from small-pox : —95.0.

No. of hospitals, dispensaries and clinics : Clinics 599 ; Dispensaries 516 ; Hospitals 231 ; Health Centres 735 ; Primary 222 (Beds 3,450) ; Subsidiary 524 (Beds 1,982) ; Total no. of beds in hospitals : 22,430 ; No. of T.B. hospitals and Sanatoria : 39 ; T.B. chest clinics : 77 ; Mobile Units for domiciliary treatment of T.B. cases : 16 ; No. of T.B. beds : 4,837 ; Rural Health Centre beds : 5,496 ; Maternity and child welfare centres : 352 ; Maternity homes and hospitals : 18 ; Maternity beds : 6,213 ; Medical colleges : 6 ; No. of students in colleges : 655 (M.B.B.S.) ; Nursing training centres : 30 ; No. of seats : 2,287 ; Pharmacy training centre : 2 ; No. of students at the centre : 110 ; No. of beds for treatment of leprosy : 2,447 ; For venereal diseases : 70 ; For treatment of mental diseases : 1,458 (including 918 beds maintained by West Bengal Govt. in two Mental Hospitals at Ranchi and 90 beds of Bangiya Unmad Ashram, Dum Dum) ; V. D. clinics : 47 ; No. of beds for infectious diseases : 1,436 ; Family Planning centres : 1,041 (sterilization beds 165).

Per capita expenditure Rs. 4.63.

CORPORATION OF CALCUTTA

5, Surendra Nath Banerjee Road, Calcutta 13.

Mayor, Prasanta Sur.

Dy. Mayor, Mani Sanyal.

Commissioner, J. C. Sengupta.

Dy. Commissioner I, P. B. Guha.

Dy. Commissioner II, S. N. Bose.

Secretary, Shailajananda Bhattacharya.

BUDGET 1968-69

Total Income : Rs. 16,93,14,000.

Total Expenditure : Rs. 16,80,95,000.

ADMINISTRATIVE PERSONNEL

(See under States Administrative Personnel.)

EDUCATIONAL INSTITUTIONS

UNIVERSITY OF CALCUTTA

Chancellor, Dharma Vira (Governor of West Bengal).

Vice-Chancellor, Dr. Satyendra Nath Sen, M.A., Ph.D.

Registrar, Arun Ray, M.Sc.

No. of affiliated Colleges : 195.

No. of University Colleges : 6.

Total no. of students : 1,23,000 boys and 52,355 girls (1967-68).

BUDGET (1968-69)

Receipts Rs. 1,34,13,250

Expenditure Rs. 2,03,11,334

West Bengal Govt. grant Rs. 25,38,200

THE UNIVERSITY OF BURDWAN

Rajbati, Burdwan

Chancellor, Governor of W. Bengal.

Vice-Chancellor, Dr. D. M. Sen, M.A., Ph.D. (Lond.).

Registrar, S. M. Chatterji, M.Sc.

Teaching :

Courses provided at present and degrees.

Post-graduate Courses in Arts : English, History, Economics, Bengali, Sanskrit, Philosophy, Mathematics and Pol. Science.

Post-graduate Courses in Science : Physics, Chemistry, Mathematics, Botany and Zoology.

Post-graduate Course in Commerce : M.Com.

Post-graduate Course in Engineering : M.E.

Degree Courses (in affiliated Colleges) : Arts (B.A.), Science (B.Sc.), Engineering (B.E.), Teachers' Training (B.T.), Dip. in Library Science, French, Music & Cert. in French & Music.

Honours Courses : (in affiliated Colleges) : English, Bengali, Sanskrit, History, Economics, Philosophy, Arabic, French, Persian, Pol. Science, Physics, Chemistry, Mathematics, B.Com. hons., Botany, Zoology & Geography whole course.

Medium of Instruction : English & Regional language (Bengali).

No. of students : In post-Graduate classes :—957 (1967-68). In affiliated Colleges :—31,846 (1967-68).

No. of affiliated Colleges : 42 (including one Engineering, and four Teachers' Training).

ANNUAL ACCOUNT (1967-68).

Receipts including opening balance : Rs. 98,72,582.53.

Expenditure : Rs. 77,30,701.37.

JADAVPUR UNIVERSITY

(P.O. Jadavpur University, Calcutta 32).

Unitary University.

Courses provided at present and Degrees :—

Engineering Courses :

Bachelor's Degree Courses (5-Year) in Architecture (B. Arch.); Chemical Engineering (B.Ch.E.); Civil Engineering (B.C.E.); Electrical Engineering (B.E.E.); Electronics and Tele-Communication Engineering (B.E. Tel. E.); Mechanical Engineering (B.M.E.); Metallurgy (B.Met.); Degree course (4-year) in Pharmacy; Evening Degree Courses (4-year course for Licentiate) in Civil Engineering (B.C.E.); Electrical Engineering (B.E.E.); Mechanical Engineering (B.M.E.); Degree course (3-year) in Food Technology and Bio-Chemical Engineering (B. Tech.); Instrumentation and Electronic Engineering (B. Tech.—Instrumentation & Electronics).

Post-Graduate Courses :

Master's Degree Courses (2-year) in Chemical Engineering (M.Ch.E.); Civil Engineering (M.C.E.); Electrical Engineering (M.E.E.); Electronics and Tele-Communication Engineering (M.E.Tel.E.); Mechanical Engineering (M.M.E.); Pharmacy (M.Pharm.); Food Technology (M. Tech.).

Science Courses :

Honours Degree courses (3-year) in Chemistry, Geological Sciences, Mathematics, Physics (B.Sc.).

Post-graduate Courses :

Master's Degree courses (2-year) in Applied Geology, Chemistry, Mathematics (Pure) & (Applied), Physics (M.Sc.).

Evening Post-graduate Courses (2-year for school teachers only) in Mathematics (3-year for school teachers only) in Physics & Chemistry.

Arts Courses :

Master's Degree courses (2-year) in Bengali, Comparative Literature, Economics, English, History, International Relations, Philosophy, Sanskrit (M.A.).

Honours Courses (3-year) in Bengali, Comparative Literature, Economics, English, History, International Relations, Philosophy, Sanskrit (B.A.).

Evening Post-graduate courses (2-year for school teachers only) in Bengali, Economics, English, History, Philosophy, Sanskrit (M.A.).

Faculties : Arts, Science, Engineering and Technology.

Medium of instruction : English.

Number of Students : 5,042 (31-3-67).

Chancellor : Vacant.

Vice-Chancellor : Vacant.

Registrar : P. C. V. Mallik.

Budget, 1967-68 : Rs. 1,26,48,300.

UNIVERSITY OF KALYANI

(P.O. Kalyani).

Teaching :

Courses provided at present and Degrees :—B.Sc. (Ag.) Hons. 4-year integrated course; B.Sc. Hons. (Animal Science) 4-year course; B.Sc. Hons. in Chemistry, Physics, Botany and Zoology—3-year course; B.Sc. Spl. Hons. in Botany & Zoology—1 year course; B.A. Hons. in Economics—3-year course; B.T.—one-year course; Diploma in Physical Education—1 year.

Post-graduate Courses : M.Sc. in Chemistry (with special papers in Organic, Inorganic and Physical Chemistry), Physics, Zoology, Botany, Mathematics; M.Sc. (Ag.) in Plant Pathology, Agronomy, Horticulture, Cytogenetics, Soil Science, Entomology, Agricultural Extension and Agricultural Economics; M.A. in English; M.A. in Economics; M.A. in Sociology.

Medium of instruction : English.

Number of Students at present (Feb. 1968) : Agriculture (including Animal Science) 832, Science 437, Arts 202, Physical Education 31, B.T. 159, Research for Ph.D. in Science 26, Research for Ph.D. in Agriculture 16, Research for Ph.D. in Arts 1.

Chancellor : Governor, West Bengal; *Vice-Chancellor* : S. K. Mukherjee, D.Sc.; *Registrar* : B. B. Mukherjee, M.Sc.

UNIVERSITY OF NORTH BENGAL

P.O. North Bengal University, Rajarammohunpur, Darjeeling.

Chancellor : Dharma Vira, Governor of West Bengal; *Vice-Chancellor* : Prof. A. C. Roy; *Registrar* : B. K. Bajpai.

BUDGET (1966-67)

Income : Rs. 9,32,332.

Expenditure : Rs. 37,76,991.

Grants : Rs. 35,35,453.

RABINDRA BHARATI UNIVERSITY

Calcutta-7

Founded : 1962.

It is an affiliating and teaching University. The media of instruction are English and Bengali.

Chancellor : Governor of West Bengal.

Vice-Chancellor : Dr. (Smt.) Roma Choudhury.

Registrar : Bhaba Ranjan De.

Number of Affiliated Institutions : 28

University Teaching Departments : 8.

Number of students (1967-68) : 1,325.

Total Income including Govt. Grants (1967-68) : Rs. 12,07,032.17.

Total Expenditure (1967-68) : Rs. 11,65,581.27.

VISVA-BHARATI

Santiniketan, West Bengal.

Founded by Rabindranath Tagore in 1921 ; incorporated as a Central University, 1951.

It is a unitary, teaching and residential university.

Visva-Bharati maintains the following Institutions :

Patha-Bhavana (School), Siksha-Bhavana (College of Graduate Studies), Vidya-Bhavana (College of Post-Graduate Studies and Research), Vinaya-Bhavana (Teachers' Training College), Kala-Bhavana (College of Fine Arts and Crafts), Sangit-Bhavana (College of Music and Dance), Rabindra-Bhavana (College of Study and Research in the Life and Writings of Tagore) and Palli-Siksha-Sadana (Institute of Graduate studies in Agriculture and Social Sciences). The University maintains also the following Research Departments : (1) Cheena-Bhavana, (2) Indo-Tibetan Institute, (3) Hindi-Bhavana, which organise teaching and Research in Chinese, Tibetan and Hindi respectively.

The Visva-Bharati Central Library contains 2,06,787 volumes including periodicals. There are sectional and seminar libraries attached to various departments. The University has its own hospital with a Chief Medical Officer and his assistants. The Guest House, which makes catering arrangements of its own, is open to visitors and guardians.

Besides the academic institutions, the University conducts two Departments : one for Rural Reconstruction and the other for Publication of Books.

A two-year Certificate Course in Indian and Foreign languages viz. Sanskrit, Bengali, Hindi, Oriya, Chinese,

Japanese, Tibetan, French, German and English is available to Post-Graduate and Under-Graduate students. Those who have successfully completed the Certificate Course may continue another year's further study for the Diploma in the same languages.

Silpa-Sadana (Cottage Industry Training Centre) provides 2-year Certificate course and 3-year Diploma course in Weaving and Woodwork.

Siksha-Charcha (Junior Basic Teachers' Training College), sponsored by the West Bengal Government, provides one year certificate course in both theory and practice of Basic Education.

The Home-Economic Training Centre sponsored by the Govt. of West Bengal provides for one-year job training course in home science to gram sevikas.

The Family and Child Welfare Training Centre sponsored by the Central Social Welfare Board, Govt. of India offers Orientation Training Course in Family and Child Welfare Programme for the women field workers deputed from different States.

A scheme of agro-economic research is being conducted at the university under the auspices of the Ministry of Food and Agriculture, Govt. of India.

Budget for 1967-68 :

Govt. Grants	..	..	..	..	Rs. 50,58,128
Other Sources	..	..	..	..	Rs. 15,30,472
<hr/>					
Total	..	..	..	..	Rs. 65,88,600
Expenditure	..	..	..	..	Rs. 67,73,082

Chancellor : Smt. Indira Gandhi ; Vice-Chancellor : Dr. Kalidas Bhattacharyya ; Registrar : S. C. Sen.

A TOURISTS' GUIDE—*(Continued from page 12).*

DEVELOPMENT OF TOURISM

The India Tourism Development Corporation has opened "Duty Free Shops" at Bombay, Delhi and Calcutta.

Against the total outlay of Rs. 8 crores on Tourism in the Third Plan, the actual expenditure during the above period, both in the Central and State sectors, was Rs. 5.1045 crores.

Fourth Plan

A sum of Rs. 25 crores was originally allocated for the

development of tourism in the Fourth Plan. Later a working group was constituted to make a critical review of the position likely to be reached by the end of 1968 and for undertaking studies and formulating programmes with regard to the size, contents and priority of the schemes to be indicated in the draft Plan. On the recommendations of the working group, a revised Fourth Five Year Plan on Tourism with an outlay of Rs. 40.334 crores has been prepared which includes Rs. 14.50 crores for India Tourism Development Corporation.

STATE ASSOCIATIONS

ANDHRA PRADESH

ASSOCIATIONS, INSTITUTIONS, ETC.

ADMINISTRATIVE STAFF COLLEGE OF INDIA

Bella Vista, Hyderabad 4.

Provides training to senior executives from private and public sectors and Government; also conducts short courses in functional specialisations *e.g.* Materials Management, Manpower Planning, Marketing, etc. It also provides Management Consultancy service and conducts research in management problems.

ALL-INDIA GRAPHITE, CRUCIBLE MANUFACTURERS ASSOCIATION (Regd.)

Rajahmundry.

AMERICAN STUDIES RESEARCH CENTRE

Hyderabad 7.

Maintains a comprehensive library on American civilization for the benefit of Indian scholars and teachers.

Director : Dr. William Mulder.

ANDHRA CHAMBER OF COMMERCE

68-B, Rashtrapati Road, Secunderabad.

Madras Office : Andhra Chamber Building, 272/73,
Angappa Naick Street, Madras 1.

ANDHRA FILM CHAMBER OF COMMERCE

Andhraratna Road, Gandhinagar,
Vijayawada 3.

ANDHRA HISTORICAL RESEARCH SOCIETY

Rajahmundry.

ANDHRA PRADESH AGRICULTURAL MACHINERY & APPLIANCES ASSOCIATION

148, Rashtrapati Road, Secunderabad.

ANDHRA PRADESH CHEMISTS & DRUGGISTS ASSOCIATION

Metropolitan Club, Hanuman Tekdi, Hyderabad.

ANDHRA PRADESH HOTELS ASSOCIATION

93, Sarojini Devi Road, Secunderabad.

ANDHRA PRADESH PAPER MERCHANTS ASSOCIATION

335, Gowliguda, Hyderabad.

ANDHRA PRADESH PRINTERS' ASSOCIATION

3-4-649 (Upstairs), Narayanguda, Hyderabad.

ANDHRA PRADESH SANGEETA NATAKA AKADEMI

Kala Bhavan, Saifabad, Hyderabad 4.

ANDHRA PRADESH SMALL INDUSTRIES ASSOCIATION

Industrial Estate, Vijayawada 7.

ANDHRA PRADESH STATE COUNCIL FOR CHILD WELFARE

6-3-1186, Begumpet, Hyderabad 16.

ANDHRA SAHITYA PARISHAD

Kakinada.

THE AUTOMOBILE ASSOCIATION OF SOUTHERN INDIA

60, Mahatma Gandhi Road, Secunderabad.

THE BHIMAVARAM CHAMBER OF COMMERCE

Bhimavaram (Dt. W. Godavari).

BUILDERS' ASSOCIATION OF INDIA

Red Hills, Hyderabad 4.

CENTRAL INSTITUTE OF ENGLISH

Hyderabad 7.

CENTRAL TRAINING INSTITUTE OF INSTRUCTORS

I.T.I. Bldg., Mallepalley, Hyderabad.

THE CHAMBER OF COMMERCE

Tadepalligudem (Dt. W. Godavari).

CHITTOOR DISTRICT SMALL SCALE INDUSTRIES ASSOCIATION

205, Town Planning Area, Tirupati.

THE COCANADA CHAMBER OF COMMERCE

Commercial Road, Kakinada 1.

FAMILY PLANNING ASSOCIATION

5-1-227, Jambagh, Hyderabad.

FEDERATION OF ANDHRA PRADESH CHAMBERS OF COMMERCE AND INDUSTRY

"Shakar Bhavan" (N.S.F. Building), B-1-174, Fateh
Maidan Road, Hyderabad-4.

GODAVARI CHAMBER OF COMMERCE LTD.

Vallabhai Street, Kakinada, East Godavari Dist.

GOUTHAMI CHAMBER OF COMMERCE

Main Road, Rajahmundry.

HYDERABAD CHILDREN'S AID SOCIETY

3-6-438, Hardikarbagh, Himayatnagar, Hyderabad 1.

HYDERABAD SECUNDERABAD IRON & HARD- WARE CONTROL STOCKISTS' ASSOCIATION

3364, Rashtrapati Road, Secunderabad 3.

THE HYDERABAD STATE FILM CHAMBER OF COMMERCE

30, Ghasmandy Road, Secunderabad.

HYDERABAD STATE MOTOR MERCHANTS' ASSOCIATION

Mahatma Gandhi Road, Secunderabad.

HYDERABAD STOCK EXCHANGE LTD.

Bank Street, Hyderabad.

HYDERABAD TRADE ASSOCIATION

Singhvee Bhavan, Tilak Road, Hyderabad.

THE INDIAN CHAMBER OF COMMERCE

P. Box 67, Guntur.

**INDIAN OIL SEEDS DEVELOPMENT
COUNCIL**

Telhan Bhavan, Himayatnagar, Hyderabad 29.

INDIAN CONFERENCE OF SOCIAL WORK
Red Hills, Hyderabad 4.

INDO-GERMAN CULTURAL SOCIETY
208, Bibi Alawa, Hyderabad-24.

INDO-IRAQ CULTURAL SOCIETY
17-6-674, Chawrasta, Buglow Beni, Hyderabad 24.

**INDUSTRIAL ESTATE MANUFACTURERS'
ASSOCIATION**

Estate Engineers' Office Bldg., Industrial Estate, Sanat-
nagar, Hyderabad 18.

THE INSTITUTION OF ENGINEERS (INDIA)
A. P. CENTRE
Khairatabad, Hyderabad 4.

**THE KRISHNA DISTRICT CHAMBER OF
COMMERCE**
Fort Road, Masulipatam.

THE NELLORE CHAMBER OF COMMERCE
Tobacco Field, Nellore 1.

NUTRITION RESEARCH LABORATORIES
Tarnaka, Hyderabad 7.

OIL TECHNOLOGICAL RESEARCH INSTITUTE
Anantapur.

It is a State Government research institute conducting
research on vegetable oils, fats and allied products. It is
the only one of its kind in India.

RAJAHMUNDY CHAMBER OF COMMERCE LTD.
Rajahmundry 1.

REGIONAL RESEARCH LABORATORY
Hyderabad 9.

SECUNDERABAD TRADES ASSOCIATION
151, Sappers Lines, Secunderabad.

**SECUNDERABAD YARN MERCHANTS'
ASSOCIATION**
1725, Gunj Bazar, Secunderabad.

**SOCIETY FOR CULTURAL RELATIONS WITH
FOREIGN COUNTRIES**
156, Dewdi Nawab Ikram Yakhootpura,
Hyderabad 23.

ST. JOHN AMBULANCE ASSOCIATION
St. Mary's Road, Secunderabad.

TELUGU BHASHA SAMITI
Head Office : Osmania Univ. Campus, Hyderabad.
Regd. Office : 71, University Bldgs., Madras 5.

TRAINING CENTRE FOR THE ADULT DEAF
Malakpet, Hyderabad.

VIZAGAPATAM CHAMBER OF COMMERCE
16/9, Main Road, Visakhapatnam 1.

VIZIANAGARAM CHAMBER OF COMMERCE
Main Road, Vizianagaram.

ASSAM

ASAM SANGEET NATAK ACADEMY
Kismet, Upland Road, Shillong.

ASSAM CHAMBER OF COMMERCE
Keating Road, Shillong.

ASSAM CHAMBER OF COMMERCE & INDUSTRY
Morello Bldg., Shillong.

ASSAM NATIONAL CHAMBER OF COMMERCE
P.O. Ulubari, Gauhati.

**H.R.H. THE PRINCE OF WALES INSTITUTE OF
ENGINEERING AND TECHNOLOGY**
Jorhat.

NARAYANI HANDIQUI HISTORICAL INSTITUTE
Gauhati.

**PASTEUR INSTITUTE & MEDICAL RESEARCH
INSTITUTE**
Shillong.

BIHAR

ALL INDIA ADIBASI MAHASABHA
Ranchi.

ALL INDIA JHARKHAND PARTY
Pathal Kuduwa, Ranchi.

THE BIHAR CHAMBER OF COMMERCE
Judges' Court Road, P.O. Box No. 71, Patna 1.
President : R. S. Pande ; *Hon. Secy.* : P. Mukerji.

BIHAR INDUSTRIES ASSOCIATION
Sinha Library Road, Patna-1.

EASTERN BIHAR CHAMBER OF COMMERCE
Bhagalpur 2.

GOVERNMENT SILK INSTITUTE
Bhagalpur.

**GOVERNMENT VACCINE INSTITUTE AND
PASTEUR INSTITUTE**
Namkum (Ranchi).

INDIAN COLLIERY OWNERS ASSOCIATION
P.O. Box No. 70, Dhanbad,

INDIAN COUNCIL OF SOCIAL WELFARE
Bihar State Branch, Annie Besant Road, Patna 4.

**INDIAN INSTITUTE FOR CULTURAL
STUDIES**
P. O. Mandar Vidyapith (Dt. Bhagalpur).

THE INSTITUTION OF ENGINEERS (INDIA)
Huda House, Gandhi Maidan Road, P.B. 77, Patna 1.

JAMSHEDPUR CHAMBER OF COMMERCE
35, Laxmi Mansion, Jamshedpur.

K. P. JAYASWAL RESEARCH INSTITUTE
Museum Buildings, Patna-1.

MUZAFFARNAGAR CHAMBER OF COMMERCE
Muzaffarnagar.

NAVA NALANDA MAHAVIHARA
(Nalanda Institute of Post-Graduate & Research in
Buddhist Learning and Pali).
Nalanda (Dt. Patna).

**RESEARCH INSTITUTE OF PRAKRIT,
JAINOLOGY & AHIMSA**
Vaishali (Dt. Muzaffarpur).

RURAL INSTITUTE
Birouli (Dt. Darbhanga).

SOIL CONSERVATION SOCIETY OF INDIA
15, Bayley Road, Patna.

YOGODA SAT-SANGA VIDYALAYA
Ranchi.

Imparts academical and spiritual education. Medium—
English.

DELHI

ASSOCIATIONS, SOCIETIES, ETC.

AERONAUTICAL SOCIETY OF INDIA
13B, Indraprastha Estate, New Delhi-1.

**AGRICULTURE MACHINERY DEALERS &
MANUFACTURERS ASSOCIATION OF INDIA**
(Pratap Building, Connaught Circus, New Delhi 1).

**AIR-CONDITIONING AND REFRIGERATION
COUNCIL OF INDIA**
P. Box No. 93, New Delhi 1.

ALL-INDIA ANGLO-INDIAN ASSOCIATION
Bombay Life Building, Connaught Circus, New Delhi.

ALL INDIA BLIND RELIEF SOCIETY
2F, Lajpatnagar, New Delhi 14.

ALL INDIA BOY SCOUTS ASSOCIATION
(General Headquarters.)
7, Jangpura B Extension, Mathura Road, New Delhi 14.

**ALL INDIA BRICK & TILE MANUFACTURERS'
FEDERATION**
1-B/21, Jhandewalan Extn., New Delhi 1.

ALL INDIA COUNCIL OF SPORTS
C/o Ministry of Education, New Delhi-2.

ALL INDIA DISTILLERS ASSOCIATION
H-37, Connaught Circus, New Delhi.

ALL INDIA FINE ARTS AND CRAFTS SOCIETY
Old Mill Road (Rafi Marg), New Delhi.

**ALL-INDIA GLASS MANUFACTURERS'
FEDERATION**
77, Deshbandu Gupta Road, New Delhi.

ALL INDIA HARIJAN SEVAK SANGH
Kingsway, Delhi 9.

The object is the eradication of untouchability by
truthful and non-violent means. It also seeks to serve
Harijans so as to promote their moral, social and material
welfare.

ALL INDIA HINDI PUBLISHERS' ASSOCIATION
'Chandralok', Jawaharnagar, Delhi-6.

ALL INDIA INDUSTRIAL EDITORS' COUNCIL
4, Birbal Road, New Delhi 14.

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
Ansari Nagar, New Delhi 16.

ALL INDIA MANAGEMENT ASSOCIATION
12-A, Nizam-ud-Din West, New Delhi 13.

ALL INDIA MANUFACTURERS' ORGANISATION
30, Ferozeshah Road, New Delhi.

ALL INDIA MOTOR UNIONS CONGRESS
16-A, Asaf Ali Road, New Delhi.

ALL-INDIA NEWSPAPER EDITORS' CONFERENCE
50, Theatre Communication Bldgs., Connaught Place,
New Delhi.

**ALL INDIA NEWSPAPER EMPLOYEES'
FEDERATION**
Flat No. 29, New Central Market, Connaught Place, New
Delhi.

**ALL-INDIA ORGANISATION OF INDUSTRIAL
EMPLOYERS**
Federation House, New Delhi 1.

Main Object : To promote and protect the industrial
development of India by studying various problems
relating to trade, industry and labour and advising the
Central and State Governments suitably.

Secretary-General : G. L. Bansal.

ALL-INDIA PEACE COUNCIL
14, Munshi Niketan, Asaf Ali Road, New Delhi.

ALL INDIA RADIO MERCHANTS' ASSOCIATION
1681/28, Mangal Market, Delhi 6.

ALL INDIA SAFETY GLASS TRADE ASSOCIATION
6511, Fatehpuri, Delhi 6.

ALL INDIA SHIPPERS COUNCIL
Federation House, New Delhi 1.

(a) To provide for mutual consultations between
shippers and shipowners/conference lines, port authorities,
and Government on matters of common interest ; (b) To
bring together the representatives of various shippers'
associations, trade and industrial associations/organisa-
tions, for consideration and discussion of the problems
affecting shippers in India ; (c) To represent the views of
shippers in regard to the structure of freight rates, avail-
ability and adequacy of shipping space, frequency of sail-
ings, port charges, port facilities, etc. ; (d) To negotiate

and enter into agreements with conference lines/ship-owners on matters affecting shippers which involve general principles and policies or on such other matters which any shippers' association has been unable to solve and are referred to the Council.

ALL-INDIA TRADE UNION CONGRESS
5-E, Jhandewalan, Rani Jhansi Road, New Delhi.

ALL INDIA WOMEN'S CONFERENCE
Sarojini House, 6, Bhagwandass Road, New Delhi 1.

Aims and Objects : To work for a society based on the principles of social justice, personal integrity and equal rights and opportunities for all.

**ASIAN INSTITUTE OF EDUCATIONAL PLANNING
AND ADMINISTRATION**
Indraprastha Estate, New Delhi 1.

**ASSOCIATION FOR MORAL AND SOCIAL HYGIENE
IN INDIA**
4, Rouse Avenue, New Delhi.

*Aims and Objects :—*To eradicate prostitution and other evils in relation thereto. To establish, maintain and assist Protective Homes, and other Institutions for the shelter, training and rehabilitation of women and children in moral danger. To establish, maintain and assist Health Clinics for diagnosis, treatment and mass education for venereal diseases control.

ASSOCIATION OF ELECTRICAL CONTRACTORS
H-35/10, Connaught Place, New Delhi.

AUTOMOBILE ASSOCIATION OF INDIA
N-43, Connaught Circus, New Delhi.

AUTOMOBILE ASSOCIATION OF UPPER INDIA
Lilaram Bldgs., 14F, Connaught Place, New Delhi.

BAR COUNCIL OF INDIA
Supreme Court Building, New Delhi 1.

BHARAT SADHU SAMAJ
Chanakyapuri, New Delhi 11.

BHARAT SCOUTS AND GUIDES
16, Ring Road, Indraprastha Estate, New Delhi.

BHARAT SEWAK SAMAJ
9-A, Theatre Communications Bldg., Connaught Circus, New Delhi 1.

A national organisation, non-political and non-official in character, started in 1952 to mobilise people's support, co-operation and participation for the success of the national plans.

The Samaj has a Youth Wing, known as Bharat Yuvak Samaj.

The Samaj has a Construction Service.

BHARATIYA ADIMJATI SEWAK SANGH
New Link Road, Jhandewalan, New Delhi 1.

*Aims and Objects :—*To work for the development of the tribal communities in India socially, economically, culturally and educationally.

BHARATIYA KALA KENDRA
2, Mata Sundri Road, New Delhi.

BHARATIYA NATYA SANGH
34, New Central Market,
Connaught Circus, New Delhi.

It is devoted to the promotion of theatre-arts in the country.

BLOOD BANK ORGANISATION
4, Pusa Road, New Delhi 5.

CENTRAL FAMILY PLANNING INSTITUTE
L-17, Green Park, New Delhi.

CENTRE FOR INTERNATIONAL STUDIES
(Massachusetts Institute of Technology)
161/48, Chanakyapuri, New Delhi 21.

CHILDREN'S FILM SOCIETY—INDIA
Sapru House, New Delhi 1.

**COMMITTEE ON RELIEF AND GIFT SUPPLIES,
NATIONAL CHRISTIAN COUNCIL OF INDIA**
4, Mathura Road, Jangpura, New Delhi 14.

**CO-OPERATIVE FOR AMERICAN RELIEF
EVERYWHERE INC.**
Post Box No. 3064, C127, Defence Colony, New Delhi 3.

CULTURAL FILM SOCIETY
(Sapru House, Barakhamba Road, New Delhi.)

**DELHI CALENDAR MANUFACTURERS'
ASSOCIATION**
P. Box No. 1727, Delhi.

DELHI CHAMBER OF COMMERCE
Dilbar Building, Paharganj, Desh Bandhu Gupta Road,
New Delhi 1.

**DELHI CHEMICAL IMPORTERS & DEALERS'
ASSOCIATION**
2nd Floor, Gopinath Bldg., Khari Baoli, Delhi 6.

**DELHI ELECTRICAL TRADERS'
ASSOCIATION**
Behind State Bank of India, Chandni Chowk, Delhi.

DELHI FACTORY OWNERS' FEDERATION
Phelps Bldg., 9-A, Connaught Place, New Delhi 1.

**DELHI GLASSWARE MERCHANTS'
ASSOCIATION**
Fatehpuri, Delhi 6.

**DELHI HINDUSTANI MERCANTILE
ASSOCIATION**
641/1213, Chandni Chowk, Delhi 6.

**DELHI HOSIERY MANUFACTURERS'
ASSOCIATION**
88, Model Basti, New Delhi 5.

**DELHI IRON FOUNDERS & WORKSHOPS
ASSOCIATION**
4782, Hauz Quzi, Delhi.

DELHI JEWELLERS' ASSOCIATION
19-E, Connaught Place, New Delhi.

DELHI LIBRARY ASSOCIATION (Regd.)
P.B. No. 1270, Delhi-6.

DELHI METAL MERCHANTS' ASSOCIATION
Sardar Bazar, Delhi 6.

- DELHI MOTOR TRADERS' ASSOCIATION**
Post Box 1098, Kashmere Gate, Delhi 6.
- DELHI OPTICIANS' ASSOCIATION**
C/o Imperial Optical Works, Katra Barien, Delhi.
- DELHI PAINT MERCHANTS' ASSOCIATION**
C/o Lalit & Co.
Fatehpuri, Delhi.
- DELHI PAPER MERCHANTS' ASSOCIATION**
Chawri Bazar, Delhi 6.
- DELHI PLASTIC CABLE MANUFACTURERS' ASSOCIATION**
Amar Bhawan, Behind State Bank, Delhi 6.
- DELHI PRINTERS' ASSOCIATION**
26-A, New Central (Shankar) Market, Connaught Circus,
New Delhi.
- DELHI PRODUCTIVITY COUNCIL**
III/L-20, Lajpatnagar, New Delhi 14.
- DELHI PUBLISHERS' ASSOCIATION**
Chawri Bazar, Delhi 6.
- DELHI SILPI CHAKRA**
Flat No. 19, Shankar Market, Connaught Circus,
New Delhi 1.
- THE DELHI SMALL-SCALE SOAP MAKERS' ASSOCIATION**
25, Guru-ki-Mandi, Delhi-6.
- DELHI STATE CHEMISTS' ASSOCIATION**
Surgical & Medicine Market, Bhagirath Palace,
Chandni Chowk, Delhi 6.
- DELHI STATE NYLON HOSIERY MANUFACTURERS' ASSOCIATION (Regd.)**
5509, Basti Harphool Singh, Sadar Thana Road, Delhi-6.
- DELHI STATIONERY MANUFACTURERS' ASSOCIATION**
C/o Royal Khalsa Stationery Mart, Nai Sarak, Delhi.
- DELHI TUBERCULOSIS ASSOCIATION**
Mpl. T. B. Clinic, S. P. Mukerji Marg, Delhi 6.
- DELHI WATCH TRADERS' SYNDICATE**
Post Box No. 1751, Delhi.
- DENTAL COUNCIL OF INDIA**
Temple Lane, Kotla Road, New Delhi 1.
- ENGINEERING ASSOCIATION OF INDIA**
(Northern Regional Office)
A-6, N. D. South Extension, Part II, New Delhi-3.
- ENTOMOLOGICAL SOCIETY OF INDIA**
Indian Agricultural Research Institute, New Delhi 12.
- THE FAMILY PLANNING ASSOCIATION**
15, Alipur Road, Delhi 6.
- FEDERATION OF ALL INDIA AUTOMOBILE SPARE PARTS DEALERS' ASSOCIATIONS**
3620/21, Netaji Subhas Marg, Daryaganj (Faizbazar),
Delhi 6.
- FEDERATION OF ALL INDIA FOOD GRAIN DEALERS' ASSOCIATIONS**
3979, Naya Bazar, Delhi 6.
- FEDERATION OF ASSOCIATIONS OF SMALL INDUSTRIES OF INDIA**
"Laghoodyog Kutee," 23-B/2, Rohtak Road, New Delhi 5.
- FEDERATION OF BISCUIT MANUFACTURERS OF INDIA**
17, Alipur Road, Delhi 6.
- FEDERATION OF HOTEL AND RESTAURANT ASSOCIATIONS OF INDIA**
15-A, Nizamuddin West, New Delhi 13.
- FEDERATION OF INDIAN EXPORT ORGANISATIONS**
Allahabad Bank Bldg., 17, Parliament St., New Delhi.
- FEDERATION OF INDIAN CHAMBERS OF COMMERCE AND INDUSTRY**
(Estd. 1927)
Federation House, Tansen Marg, New Delhi.
- The Federation is recognised by the Central Government as the premier organisation representing commercial and industrial interests in the country.
- The Federation has on its roll 194 Chambers of Commerce and Trade and Industrial Associations and 386 Associate Members, comprising leading business houses in the country. The Federation, through its constituents, covers almost the whole of the organized Indian industry and trade. It is represented on almost all important Consultative Bodies of Government. The Central Advisory Council of Industries, the Advisory Council on Trade, Capital Issues Advisory Committee, are some of the important Bodies on which the Federation is represented.
- President* : Ramnath A. Podar ; *Vice-President* : D. C. Kothari ; *Secretary-General* : G. L. Bansal.
- THE FEDERATION OF PLYWOOD INDUSTRY**
4E/13, Jhandewalan Extension, New Delhi 1.
- THE FORD FOUNDATION**
55, Lodi Estate, New Delhi.
- Assistance made available by the Foundation is in the form of grants for a broad range of India's development projects. All programmes receiving aid are closely related to India's Five Year Plans. Up to January 1, 1969, since 1951, the Foundation's technical and financial assistance to India's programmes has amounted to \$106 million. Programmes assisted have included those in rural development, intensive agricultural improvement, family planning, industrial training and development, management training, education, economic and social research, urban planning, and others.
- GANDHI SMARAK NIDHI**
Central Office :
Rajghat, New Delhi 1.
- GENERAL MACHINERY MERCHANTS' ASSOCIATION**
76, G. B. Road, Delhi 6.
- HANDICRAFTS EXPORTERS' ASSOCIATION**
32, Park Area, Karol Bagh, New Delhi 5.

THE HIMALAYAN SOCIETY

Regal Hotel, Delhi.

Bombay Address: Shreeniwas House, Waudby Road, Fort, Bombay.

Training Camp: Badalu (Kumaon Hills).

INDIA INTERNATIONAL CENTRE

40, Lodi Estate, New Delhi 3.

THE INDIAN ACADEMY OF PHOTOGRAPHY

AIFACS Bldg., Old Mill Road, New Delhi.

INDIAN ADULT EDUCATION ASSOCIATION

17-B, Indraprastha Marg, New Delhi.

INDIAN AND EASTERN NEWSPAPER SOCIETY

P.O. Box 69, I.E.N.S. Building, Rafi Marg, New Delhi 1.

INDIAN ASSOCIATION FOR AFRO-ASIAN SOLIDARITY

14B, Janpath Barracks, New Delhi.

INDIAN ASSOCIATION FOR CHEST DISEASES

Vallabhbhai Patel Chest Institute, University Campus, Delhi 6.

INDIAN BOARD FOR WILD LIFE

Ministry of Food & Agriculture, Department of Agriculture, New Delhi.

INDIAN BUDDHIST SOCIETY

7, Ferozshah Road, New Delhi.

(*Branch:* 207, Ghorpadepeeth, Poona 2).

THE INDIAN BUREAU OF PARLIAMENTARY STUDIES

16, Golf Link Road, New Delhi.

INDIAN COOPERATIVE UNION LTD.

AIFACS Bldg., Rafi Marg, New Delhi.

INDIAN COUNCIL FOR CHILD WELFARE

4, Rouse Avenue, New Delhi 1.

INDIAN COUNCIL FOR CULTURAL RELATIONS

Azad Bhavan, Indraprastha Estate, New Delhi 1.

An autonomous organisation entirely financed by the Government of India, to promote cultural relations with other countries.

INDIAN COUNCIL OF HUMAN RELATIONS

71, Pandara Road, New Delhi, 14; Radha Bazar Lane, Calcutta-1.

INDIAN COUNCIL OF MEDICAL RESEARCH

Medical Enclave (Ansari Nagar) P.B. No. 494, New Delhi-16.

Indian Council of Medical Research promotes Bio-medical research in the country.

The Council has established a Research Cadre and a Supernumerary Research Cadre to attract workers interested in bio-medical research. A scheme for appointment of Emeritus Medical Scientists has been initiated to enable eminent retired scientists to pursue the research work in which they are specialised and to train younger workers.

Director-General: Dr. P. N. Wahi.

INDIAN COUNCIL OF WORLD AFFAIRS

Sapru House, Barakhamba Road New Delhi 1.

INDIAN DENTAL ASSOCIATION

N-5, Connaught Circus, New Delhi-1.

INDIAN FEDERATION OF UNIVERSITY WOMEN'S ASSOCIATIONS

Address: 6, Bhagwandass Road, New Delhi-1.

One of the chief aims of the Indian Federation is to promote friendship and understanding among the University women of different nationalities.

INDIAN FEDERATION OF WORKING JOURNALISTS

Flat No. 29, New Central Market, Connaught Circus, New Delhi 1.

President: V. N. Bhushan Rao; *Secretary-General:* S. B. Kolpe.

INDIAN INSTITUTE OF FOREIGN TRADE

41-A, Friends Colony, Mathura Road, New Delhi 14.

INDIAN INSTITUTE OF MASS COMMUNICATION

2, Ring Road, Kilokri, New Delhi 14.

INDIAN INSTITUTE OF PUBLIC ADMINISTRATION

(Indraprastha Estate, Ring Road, New Delhi.)

INDIAN INVESTMENT CENTRE

National Insurance Bldg., Parliament Street, New Delhi 1.

Objects: To stimulate the flow of foreign private capital, technological skills and know-how into India. With this end in view, the Centre undertakes (a) to promote among the capital exporting countries a wider knowledge and understanding of the Indian economy, Government's economic policies and the 'investment climate' of the country, (b) to assist Indian entrepreneurs in their efforts to set up joint ventures, and (c) to help foreign industrial entrepreneurs in concluding collaboration agreements and in securing government approvals.

The Centre has its branch offices in New York at 708, Third Avenue, New York, N.Y. 10017 U.S.A., in Dusseldorf at Karlstrasse 76, Dusseldorf-4, Federal Republic of Germany and in London at India House, Aldwych, London, W.C. 2 (U.K.).

Chairman: G. L. Mehta; *Executive Director:* R. V. Raman.

THE INDIAN LAW INSTITUTE

Bhagwandass Road, New Delhi.

INDIAN MATHEMATICAL SOCIETY

Hans Raj College, Delhi-7.

THE INDIAN MEDICAL ASSOCIATION

I.M.A. House, Indraprastha Marg, New Delhi 1.

INDIAN NATIONAL TRADE UNION CONGRESS

17, Janpath, New Delhi 1.

INDIAN NURSING COUNCIL

Kotla Road, Temple Lane, New Delhi.

INDIAN RED CROSS SOCIETY

1, Red Cross Road, New Delhi 1.

INDIAN ROAD CONGRESS

Jamnagar House, Mansingh Road, New Delhi 11.

INDIAN SCHOOL OF INTERNATIONAL STUDIES

(Sapru House, Barakhamba Road, New Delhi).

THE INDIAN SCHOOL OF PUBLIC ADMINISTRATION

(Indraprastha Estate, Ring Road, New Delhi 1).

INDIAN SOCIAL INSTITUTE

N. D. South Extension II, D-25-D, New Delhi 49.

Director-General : Dr. A. N. Ghosh.*Purpose* : Research publications ; labour welfare and management courses ; training in co-operation ; promotion and organisation of socio-economic projects ; family life education.**INDIAN SOCIETY OF GENETICS & PLANT BREEDING**

Genetics Dn., Indian Agricultural Research Institute, New Delhi 12.

INDIAN SOCIETY OF GASTROENTEROLOGY

D/3, Ansari Nagar, New Delhi 16.

INDIAN SOCIETY OF SOIL SCIENCE

Indian Agricultural Research Institute, Delhi 12.

INDIAN STANDARDS INSTITUTION

Manak Bhavan, 9, Bahadur Shah Zafar Marg, New Delhi 1.

Director-General : Dr. A. N. Ghosh.

Aims and objects : Preparation of standards, on national and international basis, relating to structures, commodities, materials, practices, operations, promotion of standardization, quality control and simplification in industry and commerce, etc. The Institution also operates, under an Act of Parliament, ISI Certification Marks Scheme under which manufactured items are certified and marked with ISI Mark of Certification as a third party guarantee to the purchaser that the goods bearing the mark have been produced according to the provisions of the relevant Indian standards. For assisting Indian industries in organizing their in-plant standards activity, the Institution conducts training and survey programmes. The Institution also imparts training in industrial standardization to scientists and technologists from abroad. For promotion of international trade, the Institution collaborates actively with the international organizations dealing with standardization.

INDO-GERMAN CHAMBER OF COMMERCE

"E" Block, Sixth Radial Road, Connaught Place, New Delhi.

INSTITUTE FOR SOCIAL GUIDANCE

2-F, Lajpatnagar, New Delhi 14.

INSTITUTE OF APPLIED MANPOWER RESEARCH
Indraprastha Estate, Ring Road, New Delhi-1.

The main objects of the Institute are: to advance knowledge about the nature, characteristics and utilisation of human resources in India ; to provide a broad perspective of requirements of trained manpower for economic development in different fields with due regard to the probable impact of technological changes on the pattern of employment ; and to develop improved methods and techniques for the training and development of the existing work force ; educational preparation for employment ; vocational guidance ; identification and development of highly talented persons and forecasting demand and supply of manpower and connected matters.

INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA

Post Box 268, Indraprastha Marg, New Delhi 1.

President : R. Venkatesan ; *Vice-President* : H. B. Dhondy ; *Secretary to the Council* : C. Balakrishnan.**INSTITUTE OF CONSTITUTIONAL & PARLIAMENTARY STUDIES**

18, Vithalbhai Patel House, Rafi Marg, New Delhi 1.

INSTITUTE OF ECONOMIC GROWTH

University Enclave, Delhi 7.

INSTITUTE OF FOREIGN LANGUAGES INTERNATIONAL CULTURAL CENTRE

44/3, Regal Buildings, Connaught Circus, New Delhi.

INSTITUTE OF INDOLOGY

88, Lucknow Road, Delhi.

INSTITUTE OF NUCLEAR MEDICINE AND ALLIED SCIENCES(Research & Development Organisation)
Probyn Road, Delhi 7.

Diseases like hyper-thyroidism, heart ailments, Parkinsonism, leukaemia and polycythemia are treated by radiomedicines. Radiotracers are used for investigations of blood diseases, liver diseases, electrolyte disturbances and thyroid function. The Institute has a well organised Health Physics Department oriented to Radiation Protection, an Animal House and Technical Workshop.

INSTITUTE OF OFFICE MANAGEMENT, INDIA

N-34, Jangpura Extension, New Delhi-14.

Aims and objects : (1) The Institute has liaison with Administrative Management Society of U.S.A., Systems & Procedures Association of U.S.A. and Institute of Office Management of U.K. (2) It disseminates knowledge about modern techniques of Office Management to its members. (3) It renders assistance to its members in designing forms for internal use and in the case of industrial associations, it will design forms prescribed by State Government and Central Government for submission to them in a manner which is least expensive to the industry and most useful to the Government. (4) It conducts Diploma examination in Office Management in collaboration with the U.K. Institute twice a year. (5) It publishes a two monthly journal to inform its members of the improvements and developments in office procedures. (6) A Certificate Course in Office Supervision for graduate women is also conducted in collaboration with the Universities of Delhi and Punjab.

INSTITUTION OF CATERING TECHNOLOGY AND APPLIED NUTRITION (DELHI) SOCIETY

Pusa, New Delhi 12.

INSTITUTIONS OF ENGINEERS (INDIA)

(Delhi Centre)

Bahadur Shah Zafar Marg, Near Tilak Bridge, New Delhi.

THE INSTITUTION OF SURVEYORS

Kashmir House, King George's Avenue, New Delhi 11.

THE INSTITUTION OF TELECOMMUNICATION ENGINEERS

P. Box 3012, New Delhi.

INSTITUTION OF WORK STUDY (INDIA)

Kashmir House, New Delhi 11.

INTERNATIONAL ACADEMY OF INDIAN CULTURE

J-22, Hauz Khas Enclave, New Delhi 16.

INTERNATIONAL CHAMBER OF COMMERCE, INDIAN NATIONAL COMMITTEE

Federation House, New Delhi 1.

Objects : (i) To facilitate the commercial intercourse of countries; (ii) To encourage progress and to promote peace and cordial relations among countries and their citizens by the cooperation of business men and organisations devoted to the development of commerce and industry.

President : Pravinchandra V. Gandhi; *Secretary-General :* G. L. Bansal.

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE

48, Nyaya Marg, Chanakyapuri, New Delhi 11.

INTERNATIONAL CONFEDERATION OF FREE TRADE UNIONS—ASIAN REGIONAL ORGANISA- TION (ICFTU-ARO)

C-3/C-4, Green Park Extn., New Delhi 16.

Asian organization of free democratic trade unions, independent of all external domination and promoting interests of working people and assuring dignity of labour in Asia, affiliating twenty-one trade union organizations from fourteen Asian countries with more than twelve million members.

INTERNATIONAL CULTURAL CENTRE

16, Hailey Road, New Delhi.

Its main objective is to help understanding and appreciation of the world's art forms and movements through cultural exchange and thus enrich and influence the development of the arts in India itself.

INTERNATIONAL CULTURAL FORUM

2653, Roshanpura, Naisarak, Delhi 6.

INTERNATIONAL SOCIETY OF PLANT MORPHOLOGISTS

Dept. of Botany, Univ. of Delhi, Delhi 6.

IRON HARDWARE MERCHANTS' & MANUFACTURERS' ASSOCIATION

Bazar Sirkiwala, Delhi 6.

JAMIA RURAL INSTITUTE

Jamia Millia, New Delhi 25.

KALAKENDRA RESEARCH AND INFORMATION ORGANIZATION

25E/6, East Patel Nagar, New Delhi 12.

LALIT KALA AKADEMI

(National Academy of Art, Rabindra Bhavan,
New Delhi 1).

Its aim is to promote painting, sculpture, architecture and applied arts.

LIME MANUFACTURERS ASSOCIATION OF INDIA

10, Alipur Road, Delhi 6.

MACHINERY MERCHANTS' ASSOCIATION

Burn Bastion Road, Delhi.

MAX MUELLER BHAVAN

The Indo-German Cultural Centre

Library : E-Block, Con. Place, New Delhi.

Office : 3-Curzon Road, New Delhi.

MEDICAL COUNCIL OF INDIA

Temple Lane, Kotla Road, New Delhi.

Its main functions are (a) maintenance of uniform minimum standard of medical education, both undergraduate and post-graduate, and prescribing standards; (b) reciprocity in the matter of mutual recognition of medical qualifications with other countries; and (c) maintenance of Indian Medical Register.

President : Dr. S. C. Sheth; *Vice-President :* Dr. Tulsi Das; *Secretary :* Dr. U. B. Krishnan.

MOTION PICTURES ASSOCIATION

52/55, Mangal Market, Chandni Chowk, Delhi.

NATIONAL AGRICULTURAL CO-OPERATIVE MARKETING FEDERATION LTD.

34, South Patel Nagar, New Delhi 12.

NATIONAL BOOK TRUST, INDIA

23, Nizamuddin East, New Delhi 13.

An autonomous body set up by the Govt. of India in the Ministry of Education in 1957. Aims and objects : To produce and encourage the production of good literature and to make it available at moderate price; to bring out booklists, arrange exhibitions and seminars and to take all necessary steps to make the people book-minded.

It also organises seminars and workshops on problems of publication and translation in various languages.

NATIONAL CO-OPERATIVE UNION OF INDIA

72, Jorbagh Nursery, New Delhi 3.

NATIONAL COUNCIL OF APPLIED ECONOMIC RESEARCH

Parisila Bhawan, 11, Indraprastha Estate, New Delhi 1.

An independent research organisation to study important economic problems on an objective basis on its own initiative or at the instance of Government, business concerns, associations or individuals and to help in analysing and finding solutions to specific problems in the planning and management of industrial and other undertakings.

The Studies cover : Area surveys, Taxation and Finance, Industry, Agriculture, Demand Forecasts, Energy, Transport, Saving & Consumption, Planning and General Studies.

Director-General : S. Bhoothalingam.

NATIONAL CULTURAL ORGANISATION

C-2/169, Lodi Road, New Delhi-3.

NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

5, West Patel Nagar, Patel Road, New Delhi 12.

NATIONAL FEDERATION OF COOPERATIVE SUGAR FACTORIES LIMITED

34 (2nd Floor), South Patel Nagar, New Delhi 8.

THE NATIONAL FEDERATION OF P & T EMPLOYEES

9, Pusa Road, New Delhi.

NATIONAL INSTITUTE OF SCIENCES OF INDIA

Bahadur Shah Zafar Marg, New Delhi 1.

Objects :—Promotion of natural knowledge in the country including its practical application to problems of national welfare. Has three co-operating Academies, viz.,

Asiatic Society (Calcutta), Indian Academy of Sciences (Bangalore) and National Academy of Sciences, India (Allahabad). Annual Subscription Rs. 36.

NATIONAL PRODUCTIVITY COUNCIL

38, Golf Links, New Delhi 3.

An autonomous organisation to help increase productivity in every sector of the national economy. It is organised on the ILO tripartite pattern representing Government, employers, and workers. It also gives representation on its Council to various educational and professional institutions interested in productivity and the Local Productivity Councils, established practically all over the country.

NPC has six Regional Directorates (Bangalore, Bombay, Calcutta, Kanpur, Ludhiana and Madras) covering all the principal industrial areas of the country. About 55 NPC specialists are located at these regional centres and the headquarters and their services are available to Local Productivity Councils, professional and educational institutions, industrial, business, administrative and public utility establishments.

Executive Director : B. N. Bhattasali.

NATIONAL RELIEF ASSOCIATION OF INDIA

82-83, Theatre Communications Building,
Connaught Circus, New Delhi.

NATIONAL SCHOOL OF DRAMA & ASIAN THEATRE INSTITUTE

Rabindra Bhavan, Ferozeshah Road,
New Delhi 1.

NEW DELHI TRADERS' ASSOCIATION

19-E, Connaught Place, New Delhi.

OPERATIONAL RESEARCH SOCIETY OF INDIA

Defence Science Laboratory, Metcalfe House, Delhi 6.

PHARMACY COUNCIL OF INDIA

2nd Floor, Combined Councils' Building, Temple Lane,
Kothla Road, New Delhi.

PRESS INSTITUTE OF INDIA

Barakhamba Road, New Delhi 1.

PUNJAB, HARYANA AND DELHI CHAMBER OF COMMERCE & INDUSTRY

(Phelps Bldg., 9-A, Connaught Place, Post Box No. 130,
New Delhi 1.)

PUNJAB MERCHANTS' CHAMBER (Regd.)

45, Khurshid Market, Sadar Bazar, Delhi.

RAJDHANI CYCLE BEOPAR MANDAL

6, Esplanade Road, Delhi 6.

RAMAKRISHNA MISSION

Ramakrishna Ashrama Marg, New Delhi 1.

THE ROCKFELLER FOUNDATION

17, Kautilya Marg, Chanakyapuri, New Delhi 21.

Since its inception in 1920 valuable assistance has been provided by the Foundation to several institutions in such fields as medical education, public health, agriculture, humanities and social sciences. The total amount of grants including fellowships and travel grants made by the foundation upto Dec. 31, 1968 was reported to be \$19,872,830.

Officer-in-Charge & Field Director, Indian Agricultural Programme : Dr. Guy B. Baird.

THE ROLLER FLOUR MILLERS' FEDERATION OF INDIA

438, Mathura Road, Jangpura, New Delhi 14.

SAHITYA AKADEMI (NATIONAL ACADEMY OF LETTERS)

Rabindra Bhavan, New Delhi.

Aim : To work for the development and co-ordination of Indian letters, and to set high literary standards.

Concrete projects : A bibliography of Indian literature, critical edition of Kalidasa's works, selections from Sanskrit and Pali literature, annual anthologies of best Indian poems, publications of standard histories of Indian literatures, anthologies covering poetry, one-act plays, essays and short stories in Indian languages, translation of select classics from one Indian language into others, translation of foreign classics into Indian languages, a series of short volumes on significant Indian authors, etc.

The Akademi has already published a Who's Who of Indian writers containing bibliographical and biographical data about 5,500 writers in major Indian languages.

The Akademi awards Prizes for outstanding literary works in 17 Indian languages, including English.

The Akademi publishes a quarterly journal *Indian Literature* (in English) and a six-monthly *Samskrita Pratibha* (in Sanskrit), besides a Monthly News Bulletin in English.

President : D. S. K. Chatterji; *Vice-Pres.* : K. R. Srinivas Iyengar.

SANGEET NATAK AKADEMI

(Estd. 1953)

(National Academy of Dance, Drama & Music)

Rabindra Bhavan, Ferozeshah Road, New Delhi 1.

The Sangeet Natak Akademi directs its activities to the fostering of dance, drama and music. It promotes research, encourages setting up of theatre centres and training institutions, organizes seminars and festivals, awards prizes and fosters cultural exchanges. It also maintains a library of records, books and films relating to the fields of its activity, a museum of musical instruments and a sound-recording studio. The Akademi also gives Awards annually to the eminent artistes in the fields of music, dance and drama.

Two training institutions run by the Akademi are : (1) National School of Drama & Asian Theatre Institute, New Delhi; (2) Jawaharlal Nehru Manipuri Dance Academy, Imphal.

Chairman : Smt. Indira Gandhi.

SANT NIRANKARI MANDAL (Regd.)

Sant Nirankari Colony, Delhi 9.

Aims and Objects : To promote the feelings of Universal Brotherhood and equality amongst all human beings without caste, creed and colour through realisation of God and to develop equal respect for all the prophets and their holy scripts.

SANT PARMANAND BLIND RELIEF MISSION

18, Alipore Road, Delhi 8.

Object : Eradication of blindness in India.

SANYUKTA SADACHAR SAMITI

18, 'L' Block, North Block Secretariat, New Delhi 3.

Main Object : To create a social and moral climate which will foster moral values and ethical living and discourage anti-social attitudes and corrupt practices; and with this end in view, to launch an intensive and widespread campaign in the country for moral awakening and social enlightenment.

SCIENCE APPARATUS DEALERS' ASSOCIATION
C/o Sindsagar Industries, Inside Sultansingh Bldg.,
Kashmere Gate, Delhi.

SERVANTS OF THE PEOPLE SOCIETY
(Lok Sevak Mandal)

Lajpat Bhawan, Lajpat Nagar, New Delhi 14.

SHRI RAM INSTITUTE FOR INDUSTRIAL
RESEARCH

19, University Road, Civil Lines, Delhi 7.

Objects: To assist national industrial growth through research for the textile, high polymer and chemical industries.

Director: Dr. V. B. Chipalkatti.

SMALL-SCALE INDUSTRIES ASSOCIATION
33, Deputy Ganj, Delhi.

SOCIETY OF INCORPORATED ACCOUNTANTS AND
AUDITORS OF INDIA
Daryaganj, Delhi.

SPORTS GOODS EXPORT PROMOTION COUNCIL
5, Rani Jhansi Road, New Delhi 1.

ST. JOHN AMBULANCE ASSOCIATION (INDIA) AND
ST. JOHN AMBULANCE BRIGADE (INDIA)
(Estd. 1912)

1, Red Cross Road, New Delhi 1.

Objects: Instruction in First Aid, Home Nursing and allied subjects and relief of suffering of the sick and injured in peace and war.

Surgeon-in-Chief and Secretary-General: Maj.-General C. K. Lakshmanan.

SUPREME COURT BAR ASSOCIATION
Supreme Court Bldgs., Hardinge Avenue, New Delhi.

TABLE TENNIS FEDERATION OF INDIA
National Stadium, Post Box No. 282, New Delhi 1.

TRAINED NURSES' ASSOCIATION OF INDIA
L-16, Green Park, New Delhi 16.

TUBERCULOSIS ASSOCIATION OF INDIA
Office:—3, Red Cross Road, New Delhi 1.

Twenty State Tuberculosis Associations are affiliated to this Association. It runs model T.B. institutions, namely, the Lady Linlithgow Sanatorium, Kasauli (Simla Hills); the New Delhi Tuberculosis Centre, New Delhi and Lala Ram Sarup Tuberculosis Hospital, Mehrauli (Delhi).

President: Dr. S. Chandrasekhar, Union Minister of State for Health & Family Planning; *Secretary-General:* B. M. Cariappa.

UNITED CHAMBER OF TRADE ASSOCIATIONS
Nai Sarak (Katra Rathi), Delhi.

UNITED STATES EDUCATIONAL FOUNDATION IN
INDIA

Fulbright House, 12, Hailey Road, New Delhi 1.

VALLABHBHAI PATEL CHEST INSTITUTE
Univ. of Delhi, Patel Marg, Delhi 7.

YOGA INSTITUTE OF PSYCHO-PHYSICAL
THERAPY

2F, Lajpatnagar, New Delhi 14.

YOUNG FARMERS' ASSOCIATION, INDIA
32, Jorbagh, New Delhi 3.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION OF
INDIA

Parliament Street, New Delhi.

Rural Welfare work, adult education classes, vocational training, Employment Bureaus and Nursery Schools form part of its regular programme. Training of Youth to Citizenship is a major emphasis—carried out through Camps, Conferences, Seminars and Summer Schools.

YOUTH HOSTELS ASSOCIATION OF INDIA
No. 2, East Park Road, Karol Bagh, New Delhi 5.

GUJARAT

AHMEDABAD

AHMEDABAD MILLOWNERS' ASSOCIATION
Post Box No. 7, Nabarangpura, Ahmedabad 2.

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH
ASSOCIATION

Navrangpura, Ahmedabad 9.

Aims and Objects: 1. Research for improved materials, technology and human relations in industry. 2. Dissemination of scientific knowledge and consultation to member mills to solve current operational problems. 3. Training for specialised jobs such as laboratory-in-charge, quality control officers, supervisory and operative training officers, guidance to research student for post-graduate degrees of Gujarat University, M. S. Univ. of Baroda, Bombay Univ. and Madras Univ.

GUJARAT VEPARI MAHAMANDAL

(Gujarat Chamber of Commerce)

Ranchhodlal Road, Post Box No. 162, Ahmedabad.

President: Arvind Narottam Lalbhai; *Hon. Secy.:* Indravadan Pranlal.

HAROLD LASKI INSTITUTE OF POLITICAL
SCIENCE

Mavalankar Haveli, Bhadra, Ahmedabad 1.

It is an educational and non-partisan body, founded on August 15, 1954, to encourage and facilitate the scientific study of political questions and problems.

Founder Director: Prof. P. G. Mavalankar.

INDIAN INSTITUTE OF MANAGEMENT

Vastrapur, Ahmedabad 6.

Aims: (i) To provide educational facilities for training young men and women for management careers, and for developing experienced administrators. (ii) To conduct research and to contribute to the growth of knowledge of business and administration. (iii) To provide for the development of management teachers in management and administration. (iv) To assist organisations to improve management practices.

NATIONAL INSTITUTE OF DESIGN

Paldi, Ahmedabad 7.

This Institute is an autonomous non-profit training, service and research centre in design and allied fields sponsored by the Government of India in cooperation with the Ford Foundation and the State of Gujarat.

OTHER ASSOCIATIONS

Ahmedabad Automobiles Dealers' Association, C/o Jayant Motor Stores, Railwaypura, Ahmedabad 2.

Ahmedabad Booksellers' Association, Gandhi Road, Ahmedabad.

Ahmedabad Builders' Association, Gujarat Institute of Civil Engineers and Architects, Law College Road, Ahmedabad 6.

Ahmedabad Building Materials Suppliers' Association, Kadia Naka, Dariapur, Ahmedabad.

Ahmedabad Bullion Exchange Association Ltd., Manek Chowk, Ahmedabad.

Ahmedabad Chemical Merchants' Association, Kapasia Bazar, Ahmedabad.

Ahmedabad Chemists' Association, 1891, 2nd Floor, Fuwara, Gandhi Road, Ahmedabad-1.

Ahmedabad Colour Merchants' Association, Astodia Road, Ahmedabad.

Ahmedabad Commercial Association, Chokha Bazar, Ahmedabad.

Ahmedabad Cotton Mahajan, Sakar Bazar, Ahmedabad 2.

Ahmedabad Cotton Merchants' Association, Manek Chowk, Ahmedabad.

Ahmedabad Cotton Waste Merchants' Association, Cotton Waste Bldg., Relief Road, Ahmedabad.

Ahmedabad Cycle Merchants' Association, Inside Panchkuva, Ahmedabad.

Ahmedabad Education Society, Lal Bhavan, Bhadra, Ahmedabad 1.

Ahmedabad Electrical Merchants & Contractors' Association, Kapadia Electric Works, Balahunaman, Gandhi Road, Ahmedabad.

Ahmedabad Factory Owners' Association, Gheekanta Road, Ahmedabad.

Ahmedabad Ghee and Oil Brokers' Association, Narottamdas Bldg., Kapasia Bazar, Ahmedabad 2.

Ahmedabad Grain Merchants' Association, Chokha Bazar, Railwaypura, Ahmedabad 2.

Ahmedabad Glass & Frame Merchants' Association, Gandhi Road, Ahmedabad.

Ahmedabad Hessian Association, Arenda Hall, Kapasia Bazar, Ahmedabad 2.

Ahmedabad Hosiery Factory Owners' Association, 449, Kankaria Road, Ahmedabad 1.

Ahmedabad Hotel Owners' Association, Outside Kalupur Gate, Ahmedabad.

Ahmedabad Iron, Hardware and Paint Merchants' Federation, Bala Hanuman, Kaveshwar's Pole, Ahmedabad.

Ahmedabad Junior Chamber, C/o Himavan Samaj Kalyan Kendra, Near Shanti Kunj Society, Pritamrai Marg, Ahmedabad 7.

Ahmedabad Medical Society, Opp. H. K. Arts College, Ashram Road, Ahmedabad.

Ahmedabad Metal Merchants Assocn., Kansara Dehla, Railwaypura, Ahmedabad 2.

Ahmedabad Mill & Gin Stores Merchants Association, Reid Road, Railwaypura P.O., Ahmedabad 2.

Ahmedabad New Rangati Kapad Mahajan, Rangati Kapad Bazar, Astodia, Ahmedabad.

Ahmedabad Paper Merchants' Association, 995, Khadia, Char Rasta, Ahmedabad.

Ahmedabad Pipe Merchants' Assocn., 675, Chinubhai Bldg., Sakar Bazar, Ahmedabad.

Ahmedabad Printing & Dyeing Association, New Cotton Mill No. 1 Compound, Outside Raipur Gate, Ahmedabad.

Ahmedabad Printing Press Association, Purohit Printing Press, Gheekanta Road, Ahmedabad 1.

Ahmedabad Radio Merchants' Association, C/o H. B. Trivedi & Co., Gandhi Road, Ahmedabad.

Ahmedabad Sanitaryware Merchants' Association, C/o Bharat Stationery Stores, Hawa Mansion, Relief Road, Ahmedabad.

Ahmedabad Share & Stock Brokers Association, Manekchowk, Ahmedabad.

Ahmedabad Shroff Mahajan, Manek Chowk, Opp. Share Bazar, Ahmedabad.

Ahmedabad Small Scale Non-ferrous Metal Industries Association, 595/12, Kansara Dehla, Railwaypura, Ahmedabad 2.

Ahmedabad Soap Manufacturers' Association, Jeshingbhai Wadi, Gheekanta Road, Ahmedabad.

Ahmedabad Thread Manufacturers' Association, Sakar Bazar, Ahmedabad.

Ahmedabad Tea Merchants' Association, Chokha Bazar, Kalupur, Ahmedabad.

Ahmedabad Timber Merchants' Association, Sahakari Lati Bazar, Jagannathji Road, Ahmedabad 17.

Ahmedabad Tobacco Merchants' Association, Hathipura, Ahmedabad.

Ahmedabad Trunk & Buckets Factory Owners' Association, 710, Revdi Bazar, Ahmedabad.

Ahmedabad Utensils Merchants' Association, Kansara Dehla, Railwaypura, Ahmedabad.

Ahmedabad Watch Merchants' Association, 723/3, Richey Road, Ahmedabad 1.

Ahmedabad Yarn Merchants' Association, Sakar Bazar, Ahmedabad.

All India Institute of Homeopath, 25, Shantisadan Society, Ahmedabad.

All India Picker & Textile Leather Manufacturers' Association, P.B. No. 156, Ahmedabad.

Bharat Sadhu Samaj, Ellis Bridge, Sanyas Ashram, Ahmedabad 6.

Blind Men's Association, Near ATIRA, Univ., Campus, Navrangpura, Ahmedabad 9.

Confectionery Mfg. Owners' Association, 155/156, Juna Madhavpura, Ahmedabad.

Darpana, 'Chidambaram', Usmanpura, Ahmedabad 13. (Academy of Dance, Drama, Music, Puppetry & Choreography).

Gujarat Cotton Brokers' Association, Maneek Chowk, Ahmedabad.

Gujarat Dyestuffs Manufacturers' Association, Bansidhar House, Kankaria Road, Ahmedabad.

Gujarat Handloom Woollen Industries Assocn., 318/1, Ramanlal Jain Road, Astodia, Ahmedabad.

Gujarat Institute of Civil Engineers & Architects, Law College Road, Ahmedabad 6.

Gujarat Investors' & Shareholders Association, Near Dhanasuthar's Pole, Relief Road, Ahmedabad 1.

Gujarat State Hair Oil and Perfumery Traders' Association, Opp. Jumma Masjid, Gandhi Road, Ahmedabad.

Indian Pharmaceutical Association, L. M. Coll. of Pharmacy, Ahmedabad 9.

Institute of Engineers (India), Law College Road, Ahmedabad 6.

Machinery Merchants' Association, 661, Kanuga Mansion, Kapasia Bazar, Ahmedabad 2.

Physical Research Laboratory, Navrangpura, Ahmedabad 9.

School for Deaf Mutes and for the Blind, Ashram Road, Navrangpura, Ahmedabad 9.

Sheth Bholabhai Jesingbhai Institute of Learning and Research, Ahmedabad 9.

T. K. Polio Clinic & Physiotherapy Institution, Pritam Nagar, Ellis Bridge, Ahmedabad.
 Textile Association (India), Toll Naka, Gandhi Bridge, Ahmedabad 9.
 Textile Labour Association, P.B. No. 110, Bhadra, Ahmedabad.
 Textile Leather Manufacturers' Association, Post Box 156, Ahmedabad.
 Western India Automobile Association, The Cellar, Khanpur, Ahmedabad.
 West India Cotton Association Ltd., Cotton Hall, Manek Chowk, Ahmedabad.

BARODA

CENTRAL GUJARAT CHAMBER OF COMMERCE
 Federation Bldg., Race Course Road, Baroda 5.
 ENGINEERING RESEARCH INSTITUTE
 Race Course Road, Baroda 5.
 FEDERATION OF GUJARAT MILLS
 & INDUSTRIES
 Race Course Road, Baroda 5.
 FEDERATION OF SMALL SCALE & COTTAGE
 INDUSTRIES
 Dadasaheb Haveli, 3rd Floor, Mandvi, Baroda.
 GUJARAT OPTICAL MANUFACTURERS'
 ASSOCIATION
 Mangal Bazar, Baroda.
 GUJARAT SOAP MAKERS' ASSOCIATION
 C/o Shree Krishna Industries, Pratapnagar Road,
 Baroda 4.
 ORIENTAL INSTITUTE
 Smt. Hansa Mehta Library Building, Tilak Road,
 Baroda.
 TEXTILE & ALLIED INDUSTRIES RESEARCH
 ORGANISATION (TAIRO)
 Kala-Bhavan Premises, Baroda.

BHAVNAGAR

BHAVNAGAR SMALL INDUSTRIES ASSOCIATION
 Darbargadh, Bhavnagar.
 SAURASHTRA CHAMBER OF COMMERCE
 Darbargadh, Bhavnagar.

BROACH

The Broach Red Cross Society, Near Tower, Broach;
 Bharat Sevak Samaj, Jawahar Bazar, Broach;
 Broach Education Society, Jawahar Bazar, Broach;
 Broach Sad Vidya Mandal, Jawahar Bazar, Broach;
 The Broach Jilla Vidyarthi Sahayak Mandal, Lallubhai Chakla, Broach.

THE BROACH CHAMBER OF COMMERCE
 & INDUSTRIES
 Lallubhai Chakla, Broach.

JAMNAGAR

GUJARAT AYURVED UNIVERSITY
 P.O. Box No. 511, Jamnagar.

Chancellor : C. M. Trivedi; Vice-Chancellor : Mohanlal P. Vyas; Registrar : D. M. Joshi.

NAWANAGAR CHAMBER OF COMMERCE
 Chamber Hall, Grain Market, Jamnagar.

INDUSTRIAL INFORMATION CENTRE

(An organisation of Nawanager Chamber of Commerce)
 Chamber Hall, Jamnagar.

SHARDA PEETH

Dwarka.

Pontifical seat established for spiritual and cultural guidance and uplift in Western India, by the first Jagadguru Shankaracharya the Great.

Head : H. H. Jagadguru Shri Shankaracharya Shri Abhinava Sachchidananda Tirth Swamiji.

JUNAGADH

PORBANDAR CHAMBER OF COMMERCE
 Manekchowk, Porbandar.

KAIRA

THE KAIRA DISTRICT CO-OPERATIVE MILK
 PRODUCERS' UNION LTD.
 Anand (W. Rly.).

This Co operative Union daily collects 3,92,000 kgs. of milk in winter and 2,40,000 kgs. of milk in summer from its 605 affiliated village societies. Out of this 100,000 kgs. of milk are daily sent to the Bombay Milk Scheme, Bombay and after meeting local requirements, the remaining quantity of milk is converted into Amul Butter, Whole Milk Powder, Amul Sweetened Condensed Milk, Amul Ghee, Casein, Amul Cheese, Amul Milk Food for Babies and Amul Spray.

Through its extension service the Union provides veterinary aid by running 16 Mobile Veterinary Dispensaries, helps village cooperatives to run 350 Artificial Insemination Centres, provides help to exercise better Quality Control and to take up Fodder Development activities. Total turnover of the Union in the year 1967-68 was Rs. 14,84,00,000.

OTHER INSTITUTIONS

American Methodist Mission Hospital, Nadiad; Charotar Medical Relief Society & Ayurvedic College, Uttar Sanda, Nadiad; Government Agriculture Institute, Anand; The J. & J. College of Science and C. B. Arts Institute, Nadiad; The Mahagujarat Ayurvedic Hospital, Nadiad; Shankerbhai Jorabhai Mahagujarat Ayurvedic C. B. Patel Arts College, Nadiad; Sonawala Law College, Nadiad; Petlad College, Petlad; Bhawan's College, Dakor; Parekh Arts & Science Colleges, Kapadwanj; R. Parekh Arts College, Cambay; Hindu Anathashram, Nadiad; Swaminarayan Temple, Vadatal; Vithal Kanya Vidyalaya, Nadiad; Dhuvaran Thermal Station, Dhuvaran.

THE CHAMBER OF COMMERCE
 BBZ-N-41, Gandhidham.

MEHSANA

ISABGOL MANUFACTURERS' & EXPORTERS'
 ASSOCIATION
 Bindu Sarowar Road, Sidhpur.

KALOL SMALL INDUSTRIES ASSOCIATION
 Navjivan Road, Kalol.

PANCH MAHALS

Panchmahals Chamber of Commerce, Station Road, Godhra; Nari Samrakshan Kendra, Civil Lines Area, Godhra; Shreyas Education Society, Laxminarayan Trust Building, Godhra.

RAJKOT**MORVI CHAMBER OF COMMERCE & INDUSTRIES**

Cotton Association Hall, Near Darbargadh, Morvi.

THE SAURASHTRA OIL & OILSEEDS ASSOCIATION LTD.

Commercial Chamber, Rajkot.

SURAT

Sarvajanik Education Society, Anath Mahajan Balashram, Katarigam, Union Education Society, Shri Tap. Brahmacharyashram Sabha, Laldarwaja, Surat Education Society, Navyug Kelavani Mandal.

JEEVAN BHARATI

Greenlands, Nanpara, Surat.

Recognised by the Government of Gujarat as a multi-purpose school.

THE SOUTHERN GUJARAT CHAMBER OF COMMERCE & INDUSTRY

Samruddhi, Nanpara, Surat 1.

THE SURAT JARI GOODS PRODUCERS' CO-OPERATIVE SOCIETY, LTD.

Taj Manzil, opp. Tower, Surat.

THE SURAT VANKAR SAHAKARI SANGH LTD.

Kinkhabwala Wadi, Begampura, Surat.

THE SURAT WEAVING ASSOCIATION

Limda Chowk, Lokhandwala Bldg.,

Mahatma Gandhi Road, Surat.

SURENDRANAGAR**SAURASHTRA GINNING AND PRESSING FACTORIES ASSOCIATION**

C/o Dhrangadhra House, Surendranagar.

SAURASHTRA MILLOWNERS' ASSOCIATION

Dhrangadhra House, Surendranagar.

SHRI ZALAWAD CHAMBER OF COMMERCE AND INDUSTRIES

Main Bazar, Surendranagar.

KERALA**ANANDA NRITYA KALALAYAM SCHOOL OF KATHAKALI DANCE**

Head Office : Palace Ward, Thevalli, Quilon 1.
Branch : Kakkad, Kunnankulam.

AUTOMOBILE ASSOCIATION OF SOUTHERN INDIA

Pulical Bldgs., M. G. Road, Ernakulam.

BADAGARA SHIPPERS' ASSOCIATION

Badagara.

ALL INDIA MANUFACTURERS' ORGANISATION

Mohan Vihar, Karikumari Road, Ernakulam 1.

ALLEPPEY OIL MILLERS' & MERCHANTS' ASSOCIATION

Naga Mahal Bldgs., Alleppey.

ALLEPPEY PRODUCE MERCHANTS' ASSOCIATION

Alleppey.

THE CALICUT CHAMBER OF COMMERCE AND INDUSTRY

South Mananchira Road, Calicut 1.

THE CASHEW EXPORT PROMOTION COUNCIL

'World Trade Centre', Mahatma Gandhi Road,
 Ernakulam-6.

CENTRAL COCONUT RESEARCH STATION

Kayangulam, Ochira P. O.

CENTRAL COCONUT RESEARCH STATION

Kasaragod.

CENTRAL INSTITUTE OF FISHERIES TECHNOLOGY

P.B. No. 39, Chittoor Road, Ernakulam 1.

CENTRAL KERALA TILE MANUFACTURERS' ASSOCIATION

Trichur 1.

CHAMBER OF COMMERCE

Arecal Bldgs., M.C. Road, Kottayam.

CHAMBER OF COMMERCE

Trichur 1.

CHAMBER OF COMMERCE

Chalai, Trivandrum 1.

THE CHANGANACHERRY MERCHANTS' ASSOCIATION

Market, Changanacherry.

CHRISTIAN LITERATURE SOCIETY

Malayalam Branch.

Tiruvalla P.O.

COCHIN CHAMBER OF COMMERCE AND INDUSTRY

Bristow Road, Willingdon Island, P. Box No. 503, Cochin 3.

President : A. I. Peacock ; *Vice-President* : M. Sankara Menon ; *Secretary* : P. Sethuram.

COCHIN PAPER, CUTLERY & ALLIED TRADERS' ASSOCIATION

Jain Temple Trust Bldg., IV/47, New Road, Cochin 2.

DAIRY PRODUCTS IMPORTERS' ASSOCIATION

Jain Temple Trust Bldg., IV/47, New Road, Cochin 2.

ERNAKULAM CHAMBER OF COMMERCE

Ernakulam 1.

ERNAKULAM PRESS OWNERS' ASSOCIATION

Deepam Press Bldgs., Basin Road, Ernakulam 1.

FAMILY PLANNING ASSOCIATION OF INDIA

Shanthi Bhavan, Bhakthi Vilas Road, Trivandrum.

GANDHI ASHRAM

Mayannur, Via Ottapalam.

Secretary : K. N. Nambisan ; *Joint Secretary* : Smt. Kamala Nambisan.

The Gandhi Ashram does constructive work on Sarvodaya lines. Besides Khadi—Ambar and traditional, most of the other village industries of the Khadi Commission, such as soap making, oil pressing, pottery, tanning and bone crushing, hand-pounding, bee-keeping, fibre industry, etc. are being worked at the Ashram.

GANDHI SEVA SADAN
Gandhi Seva Sadan P.O., Via Lakkiti,
Dist. Palghat. Estd.: 1945

INDIA PEPPER AND SPICE TRADE ASSOCIATION
XI/118, Jew Town, Cochin 2.

INDIAN CHAMBER OF COMMERCE
P. O. Box No. 136,
Cochin-2.

INDIAN CONFERENCE OF SOCIAL WORK
Post Box No. 6, Ernakulam 1.

INDIAN LEMONGRASS OIL EXPORTERS' ASSOCIATION
P. Box 52, Cochin 1.

INDIAN RED CROSS SOCIETY
Near General Hospital, Trivandrum 1.

INDO-NORWEGIAN PROJECT
P. Box 137, Ernakulam.

INDUSTRIAL & COMMERCIAL RESEARCH SOCIETY OF INDIA
Vallia Veedu, Kozhencheri.

INSTITUTION OF ENGINEERS (INDIA)
12/33B, Observatory Hill, Trivandrum 1.

INTERNATIONAL FELLOWSHIP
Mahilagiri, Thorrumukkam P.O.
(Dt. Alwaye).

KERALA BLIND WELFARE ASSOCIATION
Mankadapallipuram P.O.
Angadipuram.

KERALA COIR PRODUCERS' AND DEALERS' ASSOCIATION
Alleppey.

KERALA KALAMANDALAM
Cheruthuruthy P.O.
State Academy of Arts imparting training on scientific lines in Kathakali, Koothu-koodiyattam, Panchavadyam, Ottanthullal, Mohiniyattam and Bharatanatyam.

KERALA SAHITHYA AKADEMI
Trichur.

KERALA SANGEETHA NATAKA AKADEMI
Trichur 1.

KERALA STATE COUNCIL FOR CHILD WELFARE
15/674, Bhaktivilas Road, Trivandrum 14.

THE KERALA STATE OIL MILLERS' ASSOCIATION
Ernakulam Mills Buildings, Ernakulam.

KERALA STATE SMALL INDUSTRIES ASSOCIATION
New Road, Cochin 2.

KOZHIOKODE TIMBER EXPORTERS' ASSOCIATION
Mooriyad, Calicut-7.

THE MALABAR BUS OWNERS' ASSOCIATION
Oyitty Road, Kozhikode.

THE MALABAR CHAMBER OF COMMERCE
Calicut 1.

MALABAR PRODUCE MERCHANTS' ASSOCIATION
Silk Street, Calicut 1.

MALABAR SAW MILLS' ASSOCIATION
Kallai, Calicut-3.

MARINE PRODUCTS EXPORT PROMOTION COUNCIL
World Trade Centre, M. G. Road, Ernakulam 6.

NAIR SERVICE SOCIETY
Perunnai, Changanacherry.

NATANA NIKETANAM
Trichur.
Only institution of its kind for imparting advanced and specialised training in the art of Kathakali and Bharat Natyam to girls.

NORTH MALABAR CHAMBER OF COMMERCE
Fort Road, Cannanore.

NORTH TRAVANCORE CHAMBER OF COMMERCE
Bank of Alwaye Buildings, Alwaye.

PALGHAT CHAMBER OF COMMERCE
Palghat 1.
President : K. Vasudevan ; *Hony. Secretaries* : R. S. P. Swaminathan, C. Kuppuswamy.

REGIONAL CHAMBER OF COMMERCE
Big Bazar, Palghat.

SAHITYA PRAVARTHAKA CO-OPERATIVE SOCIETY
Kottayam
A co-operative organisation of the authors of Kerala with branches in Trivandrum, Ernakulam and Trichur. Stabilising literary work as a profession is one of the major aims of the society.

SEAFOOD CANNERS' AND FREEZERS' ASSOCIATION OF INDIA
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President: Dhirajlal Maganlal; Chairman: P. J. Jeejeebhoy; Vice-President: Laldas Jamnadas; Hon. Treasurer: Mathuradas Shamaldas; Secy.: A. J. Shah.

TEXTILE MACHINERY MANUFACTURERS' ASSOCIATION

80, Dr. Annie Besant Road, 3rd Floor, Worli, Bombay 18.

TRACTOR EARTHMOVING AND CONSTRUCTION EQUIPMENT DISTRIBUTORS' ASSOCIATION LTD.

C/o The Bombay Chamber of Commerce & Industry, Post Box No. 473, Bombay 1.

TRADE & TECHNICAL PUBLICATIONS ASSOCIATION

12, Fort Chambers, Haman Street, Bombay 1.

TRAVEL AGENTS' ASSOCIATION OF INDIA LTD.

C/o Bombay Chamber of Commerce & Industry, Mackinnon Mackenzie Bldg., Ballard Road, Ballard Estate, Bombay 1.

UPCOUNTRY NEWSPAPER REPRESENTATIVES ASSOCIATION

C/o Secretariat, National Herald, 232, Dr. D. Naoroji Road, Bombay 1.

It is an organisation of persons working in Bombay on behalf of newspapers including magazines and periodicals, published outside Bombay.

VEGETABLE OILS ASSOCIATION OF INDIA
Anand Bhavan, 5th Floor, 87-C, Broach Street, Bombay 9.

WATCH TRADE FEDERATION

Ghadiali Building, 88A-90, Nagdevi Cross Lane,
Bombay 3 RB.

**WESTERN INDIA AUTOMOBILE
ASSOCIATION**

Lalji Naranji Memorial Building, Churchgate
Reclamation, Bombay 1.

BRANCH OFFICES.—Ahmedabad : The Cellar, Khanpur ;
Poona : 7, Moledina Road, Poona 1 ; Nagpur : Turabali
Hassonjee, C/o K. S. M. Hassonjee & Sons, P.O. Box
312 ; Jaipur : S. Trivedi, Rajendra Bhuvan, Subash

Marg, 'C' Scheme ; Rui de Braganca, Honorary Repre-
sentative at Goa, Opposite the Secretariat, Panaji.

**WESTERN INDIA PHOTOGRAPHIC & ALLIED
TRADES ASSOCIATION LTD.**

Mangrol Mansion, 6, Gunbow Street, Bombay 1.

**WESTERN INDIA SHEET ROLLERS'
ASSOCIATION**

32, Nicol Road, Ballard Estate, Bombay 1.

**WOOL & WOOLLEN EXPORT PROMOTION
COUNCIL**

27, Manohar, Marine Lines, Bombay 1.

CHAMBERS OF COMMERCE IN GREATER BOMBAY**ALL INDIA EXPORTERS' CHAMBER**

2nd Floor, Janmabhoomi Chambers, Fort Street, Bombay 1.

Activities:—To promote and protect trade and com-
merce, particularly the export trade of India and assist
exporters in their pursuit of exploring and expanding
their overseas commercial intercourse.

**BELGO-INDIAN CHAMBER OF COMMERCE AND
INDUSTRY**

2nd Floor, Taj Building, 210, D. Naoroji Road, Bombay 1.

**BOMBAY CHAMBER OF COMMERCE AND
INDUSTRY**

Mackinnon Mackenzie Bldg., Ballard Estate, Bombay 1.

President : I. MacKinnon ; (*Stipendiary*) *Vice-President* :
J. B. Bowman, M.B.E. ; *Dy. Secretary* : B. P. Gunaji.

EAST INDIA CHAMBER OF COMMERCE LIMITED

Patwa Chawl, Sheikh Memon Street, Bombay 2.

INDIAN MERCHANTS' CHAMBER

Lalji Naranji Memorial, Indian Merchants' Chamber
Building, 76, Veer Nariman Road, Churchgate,
Bombay 20.

President : J. H. Doshi ; *Vice-President* : S. P. Godrej ;
Secretary : C. L. Gheevala.

INDO-GERMAN CHAMBER OF COMMERCE

P.O. Box No. 1689.

Vulcan Insurance Bldg., Veer Nariman Road,
Bombay 20.

The Chamber promotes and fosters trade and com-
merce of all description between the Union of India and
the Federal Republic of Germany. It has also offices at
Calcutta, Delhi, Madras and Dusseldorf (W. Germany).

President : Dr. R. Storkebaum ; *Vice-President* : Dr. B.
P. Godrej ; *Secretary-General* : Dr. K. Pracht, New Delhi ;
Secretary : D. G. Ringel, Bombay.

**INTERNATIONAL SINDHI CHAMBER OF
COMMERCE & INDUSTRIES**

Sheva Niketan, Top Floor, Pinjari Street, Bombay 3.

MAHARASHTRA CHAMBER OF COMMERCE

12, Rampart Row, Bombay 1.

Membership of the Chamber is open to all carrying on
trade, commerce and industry in Maharashtra State ir-
respective of caste, creed or community.

President : D. B. Sarda ; *Vice-Presidents* : M. L. Apte,
B. M. Gogte, V. S. Vaidya ; *Secretary* : R. G. Mohadikar.

MEMON CHAMBER OF COMMERCE

Patharia Palace, Mohamedali Road, Bombay 3.

**WESTERN INDIA CHAMBER OF
COMMERCE, LTD.**

232-234, Kalbadevi Road, Bombay 2.

President : Krishnadeo Gupta ; *Secretary* : Asharam
Dube.

BENEVOLENT INSTITUTIONS IN GREATER BOMBAY**ACWORTH LEPROSY HOSPITAL**

Wadala, Bombay 31.

ALL-INDIA ANIMAL WELFARE ASSOCIATION

149, Shroff Bazar, Bombay 2.

16, Dadabhoy Manzil, Congress House, Bombay 4.

ANJUMAN-E-MUFIDUL YATAMA

Madanpura, Masjid Jamil, Bombay 8.

ARTYTOYS INDUSTRIAL SCHEME TRUST

Sir Ratan Tata Welfare Centre, Sir Ratan Tata Road,
Tardeo, Bombay-34.

ATHORNAN MANDAL

Representative Body for Parsee Priests in India,
Navsari Building, 240, Dr. Dadabhoy Naoroji Road,
Fort.

BAI MOTLIBAI WADIA CHARITABLE FUNDS

22-D, Parsi Bazar Street, Fort.

(Endowments for scholarships.)

BALVIKAS KENDRA

Tilak Vidyalaya Road, Vile Parle (East),
Bombay 57.

BAPNU GHAR

2, Annie Besant Road, Near Vallabhkhair Patel Stadium,
Hornby Vellard, Worli.

BEGGARS' HOME FOR FEMALES

Chembur, Bombay 71.

**BENE-ISRAEL HOME FOR DESTITUTES AND
ORPHANS**

Plot 92, Agripada, Jacob Circle, Bombay.

BHAGINI SAMAJ

Bhagini Samaj Maganlal Ghia Building, 225, Khetwadi Main Road, Bombay.

BHARATIYA VANITA SAMAJ

Nair Mahal, 1st Floor, Tulsi Pipe Road, Bombay 16.

BILLAWAR ASSOCIATION

17, Raghunath Dadaji Street, Fort, Bombay.

BLIND MEN'S ASSOCIATION

177-79, Lamington Cross Road, Bombay 7.

Activities: Strives to provide higher education to the deserving blind; helps the blind to start small industries or lend money to them free of interest for advancement in their profession and vocations, thus making them self-supporting; helps the blind during the short periods of their unemployment, sickness or other calamities and provides them with medical aid. It has affiliated associations at Poona and Ahmedabad.

THE BOMBAY CHESHIRE HOME

Bethlehem House, Makahali Caves Road, off Mathuradas Visanji Road (Kurla-Andheri Road), Andheri, Bombay 58.

The Cheshire Homes are for the incurably sick and homeless.

BOMBAY CITY AMBULANCE CORPS

21, Marine Lines, Bombay.

Free First Aid and Ambulance Service Station — all days, all hours.

BOMBAY DEAF & DUMB SOCIETY

12, Rampart Row, Bombay 1.

BOMBAY INSTITUTION FOR DEAF AND MUTES

Nesbit Road, Mazagon, Bombay 10.

BOMBAY LEGAL AID SOCIETY

Hamam House, Hamam Street, Bombay 1.

The object of the Society is to make justice more readily accessible to the poor.

THE BOMBAY MOTHERS AND CHILDREN WELFARE SOCIETY

No. 10, B.D.D. Chawl, De Lisle Road, Bombay 11.

BOMBAY PANJRAPOLE

Bhuleshwar, Post Girgaon, Bombay 4.

BOMBAY RELIEF ASSOCIATION

Office: Cook's Bldg., 2nd Floor, Dr. Dadabhoy Naoroji Road, Bombay 1; *Relief Office*: 115, Love Lane, Mazagon, Bombay 10.

BOMBAY SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS

Bombay 12.

BYRAMJEE JEEJEEBHOY PARSEE CHARITABLE INSTITUTION

Opp. Charni Road Rly. Station, Bombay 4.

CHILDREN'S AID SOCIETY, BOMBAY

83, Lady Hardinge Road, Mahim, Bombay 16.

DADAR BHAGINI SAMAJ

3rd Lane, Hindu Colony, Dadar, Bombay 14.

Industrial Classes, welfare centre and family planning.

DAUGHTERS OF MARY IMMACULATE

Regina Pacis, Seth Motishah Lane, Victoria Gardens, Bombay 27 DD.

1. Residential Training Centre, Club & Employment Bureau for Houseworkers. 2. Home and School for destitute children. 3. Hostel for working girls and students. 4. Regina Pacis Free Dispensary for the poor.

THE FAMILY PLANNING ASSOCIATION OF INDIA

1, Metropolitan House, Dadabai Naoroji Road, Bombay 1.

The Association's activities: (1) carrying out educational work to spread information on family planning and to motivate people to adopt it; (2) providing clinical service; (3) training personnel including doctors and social workers; and (4) carrying out field research studies and clinical studies, and also providing encouragement to research work — sociological, demographic and medical.

The Headquarters is affiliated to the International Planned Parenthood Federation and maintains contact with family planning associations in many countries of the world.

President: Smt. Avabai B. Wadia.

FELLOWSHIP OF THE PHYSICALLY HANDICAPPED

Haji Ali Park, Clerk Road, Mahalaxmi, Bombay 11.

FIRE BRIGADE

Headquarters, Byculla, Bombay 8 BC.

Fire Brigade Stations

Byculla Headquarters; Alexandra Docks; Gowalia Tank; Sewree; Fort; Colaba; Shivaji Park; Worli; Dadar; Memonwada; Mandvi; Andheri; Vikhroli; Chembur.

FREE OPHTHALMIC HOSPITALS' SOCIETY

Jehangir Merwanji Road, Poibavdi, Parel, Bombay 12.

GOCULDAS TEJPAL CHARITIES

7, Bestion Road, Fort, Bombay.

HABONIM WORK ROOM

55, Forbes Street, Fort.

Women and girls from all strata of society are admitted.

HIND KUSHT NIVARAN SANGH

Maharashtra State Council, Red Cross Office, 141, Mint Road, Bombay 1.

HIS ROYAL HIGHNESS THE PRINCE AGAKHAN'S COUNCIL FOR BOMBAY

Khoja Jamatkhana, Chinch Bunder, Bombay 9.

INDIAN COUNCIL FOR MENTAL HYGIENE

Cambatta Chambers, 42, Maharshi Karve Road, Bombay 20.

INDIAN RED CROSS SOCIETY

(Maharashtra State Branch)
141, Mint Road, Bombay 1.

INDIAN SAILORS' HOME SOCIETY

Masjid Siding Road, Bombay 9.

INJUREDS' AID SOCIETY

21, Hatim Manzil, 149, Frere Road, Bombay 1.

Renders free medical and legal aid to persons injured in road accidents within the limits of Greater Bombay.

**JAMSETJEE JEEJEEBHOY HOSPITAL
NURSING ASSOCIATION**
Maneckji Wadia Bldg., Mahatma Gandhi Road,
Bombay 1.

JEWISH RELIEF ASSOCIATION
Hague Building, Sprott Road, Ballard Estate,
Post Box No. 47.

JUVENILE SERVICE BUREAU
83, Lady Hardinge Road, Mahim, Bombay 16.

LADY TATA MEMORIAL TRUST
Bombay House, Bruce Street, Fort, Bombay 1.

LEAGUE OF MERCY FOR DIOCESE OF BOMBAY
61, Clare Road, Byculla, Bombay 8.

LOKMANYA SEVA SANGH
Tilak Mandir, Ram Mandir Road, Vile Parle, Bombay 57.

**MAHARASHTRA STATE COUNCIL FOR CHILD
WELFARE**
No. 10, B.D.D. Chawl, Delisle Road, Jacob Circle,
Bombay 11.

**MAHARASHTRA STATE COUNCIL ON
BLINDNESS**
C/o Sir C. J. Ophthalmic Hospital, Bombay 8.

MOGAVEERA VYAVASTHAPAKA MANDALI
Manek Mansion, 8, Nanabhai Lane, Bombay 1.

MUSLIM AMBULANCE SOCIETY
154, Kambekar Street, Bombay 3.

MUSLIM BOYS AND GIRLS ORPHANAGE
Darul-Yatama, 69, Kambekar Street, Bombay 3.

N. M. WADIA CHARITIES
22-D, Parsi Bazar Street, Fort.

NAGPADA NEIGHBOURHOOD HOUSE
New Nagpada Road, Byculla, Bombay 8.

Activities.—Medical and Family Planning Clinics, Children's Welfare Centre, Nursery, Dramas, Meetings, Cinemas, Games, Classes, Clubs, Athletics, Night Classes, Lectures, Crafts Sales Centre for Village & Mission Industries, Employment Bureau, Working Men's and Women's Hostels, Libraries for adults and children, Bombay School of Social Welfare, Family Welfare Agency, Women's activities, Creche, Child Guidance Clinic.

THE NATIONAL ASSOCIATION FOR THE BLIND
51, Mahatma Gandhi Road, Bombay 1.

AIMS AND OBJECTS.—To work in the whole of India for the prevention and cure of blindness and for the welfare of the blind.

PARSI CHARITY ORGANISATION SOCIETY
Thakur Nivas, 173, Jamshedji Tata Road, Bombay 1.

PARSI PUNCHAYAT FUNDS AND PROPERTIES
209, Dr. Dadabhoy Naoraji Road, Fort, Bombay.

THE POPULAR AMBULANCE ASSOCIATION
Talmakiwadi, Tardeo, Bombay 7.

**PROBATION AND AFTER-CARE ASSOCIATION,
MAHARASHTRA STATE**
B.I.T. Block No. 15, King's Circle, Matunga, Bombay 19.

**PROF. DATE'S CHARITABLE DEAF AND DUMB
INSTITUTE**
Opp. Kalaram Mandir, Thakurdwar Road,
Bombay 2.

RASHTRA DHARMA SOCIETY
Ganga Nivas, 234, Walkeshwar, Bombay 6.

SEVA SADAN SOCIETY
Gamdevi, Bombay 7.

SHRADDHANAND MAHILASHRAM
(Conducted by Hindu Women's Rescue Home Society.)
King's Circle, Matunga, Bombay 19.

SHREE MANAV SEVA SANGH
Plot No. 255/257, Sion Road, Sion (West), Bombay-22.
(A foundling home for infants and orphans.)

**SHRI GIRDHARLAL DAMODAR DAFTARY
EDUCATION TRUST**
Derasar Lane, Ghatkopar, Bombay 77.

SHRI JAIN MAHILA SAMAJ
Mangrol Mansion, Bora Bazar Street, Bombay 1.

SHRI MAHAVIRA JAINA VIDYALAYA
Gowalia Tank Road, Bombay 26.

SIR DORABJI TATA TRUST
Bombay House, Bruce Street, Bombay 1.

**SIR JAMSETJEE JEJEEBHOY PARSEE
BENEVOLENT INSTITUTION**
209, Dr. Dadabhai Naoraji Road, Fort, Bombay.

SIR RATAN TATA CHARITIES
Bombay House, Bruce Street, Fort.

**SOCIETY FOR THE CARE, TREATMENT AND
TRAINING OF CHILDREN IN NEED OF
SPECIAL CARE**
Sewri Hill, Sewri Road, Bombay 33.

**SOCIETY FOR THE EDUCATION OF THE
CRIPPLED**
Chunilal Mehta Scout-Guide Hut, Mahatma Gandhi Road,
Bombay 1.

**SOCIETY FOR THE PROTECTION OF CHILDREN
IN WESTERN INDIA**
The Byramjee Jeejeebhoy Home for Children, Matunga,
Bombay 19.

**SOCIETY FOR THE REHABILITATION OF
CRIPPLED CHILDREN**
Haji Ali Park, Clerk Road, Mahalakshmi, Bombay 11.

ST. ANTHONY'S HOME
Bellasis Road, Byculla, Bombay 8.
Orphanage, School and foundling home.

ST. CATHERINE'S HOME
Andheri, Bombay.

Home for unwanted, homeless, poor babies, children
and youngsters.

**ST. FRANCIS D'ASSISI HIGH SCHOOL &
ORPHANAGE**
Mount Painsur, P.O. Borivli, Bombay 92.

ST. JOHN AMBULANCE ASSOCIATION
MAHARASHTRA STATE CENTRE
141, Mint Road, Bombay 1.

ST. JOHN AMBULANCE BRIGADE (INDIA)

No. 3 District, Maharashtra.

District Headquarters.—Red Cross and St. John Ambulance Building, Town Hall Compound, Fort, Bombay.**ST. JOHN AMBULANCE BRIGADE (INDIA)**

COSMOPOLITAN DIVISION

Divisional Headquarters—Sir Byramji School, opposite Charni Road Station, Bombay.

ST. JOHN AMBULANCE BRIGADE (INDIA)

PARSI DIVISION

Lady Willingdon Building, 1, Mahatma Gandhi Road, Fort, Bombay.

**ST. JOHN AMBULANCE BRIGADE
(OVERSEAS)**

MUSLIM AMBULANCE DIVISION

152-154, Kambekar Street, Bombay 3.

**ST. JOHN AMBULANCE BRIGADE
(OVERSEAS)**

MUSLIM NURSING DIVISION

152-154, Kambekar Street, Bombay 3.

SWASTIK LEAGUE

Seth Varjivandas Motilal Swastik Mandir, Vithalbhai Patel Road, Bombay 4.

TAHERI SCHOLARSHIP SOCIETY

Mohamedi Baug, 21, Sarang Street, Bombay 3.

VANITA VISHRAM

Sardar Vallabhbhai Patel Road, Bombay 4.

The institution aims at ameliorating the condition of women in the States of Maharashtra and Gujarat and also elevating their social status.

VICENTA MARIA SOCIAL SERVICE SOCIETY

Regina Pacis, Seth Motishah Lane, Victoria Gardens, Bombay 27-DD.

Activities :—1. Residential Training Centre, Club and Employment Bureau for Houseworkers. 2. Home and School for destitute children. 3. Hostel for working girls and students. 4. Regina Pacis Free Dispensary for the poor.

WORKSHOP FOR THE BLIND

Dr. Annie Besant Road, Worli, Bombay 18.

Aim : To provide work to such blind persons as pass out from Industrial Homes and Training Centres till such times as they are placed in open industry.**CULTURAL, POLITICAL, PROFESSIONAL, SCIENTIFIC AND SOCIAL INSTITUTIONS
IN GREATER BOMBAY****AERONAUTICAL SOCIETY OF INDIA**

BOMBAY BRANCH :

Works Maintenance Division, Air-India, Santa Cruz, Bombay 29-AS.

**AKHIL BHARATIYA C.K.P. HITAWARDHAK
SANSTHA**

C.K.P. Dnyatigraha, Ram Maruti Road, Dadar, Bombay 28.

**THE ALL BOMBAY CONSUMERS' CO-OPERATIVE
SOCIETIES FEDERATION LTD.**

3rd Floor, 18, Military Square Lane, Fort, Bombay 1.

ALL-INDIA ANGLO-INDIAN ASSOCIATION

Brabourne Stadium, Vir Nariman Road, Bombay 1.

**ALL-INDIA FEDERATION OF TRANSPORT USERS'
ASSOCIATION**

196/B, Gaiwadi, Girgaon, Bombay 4.

ALL-INDIA FOOTBALL FEDERATION

92, Dr. Dadabhoy Naoroji Road, Bombay 1 BR.

**ALL-INDIA INSTITUTE OF LOCAL SELF-
GOVERNMENT**

11, Horniman Circle, Fort, Bombay 1.

ALL INDIA INSURANCE AGENTS' ASSOCIATION

Rajabhdur Compound, 19, Bruce Street, Bombay-1.

**ALL-INDIA OCCUPATIONAL THERAPISTS'
ASSOCIATION**

C/o Servants of India Society, Sardar V. Patel Road, Bombay-4.

ALL-INDIA PRIMARY TEACHERS' FEDERATION

C/o M. V. Donde, 'Tapodan', Bandra, Bombay 50.

**THE ALL-INDIA STATE CO-OPERATIVE BANKS'
FEDERATION LTD.**

C/o The Maharashtra State Co-operative Bank Ltd., 9, Bakehouse Lane, Fort, Bombay 1.

ALL-INDIA TELEPHONE ASSOCIATION LTD.

12, Fort Chambers, Hamam Street, Bombay 1.

ANTHROPOLOGICAL SOCIETY OF BOMBAY

C/o K. R. Kama Oriental Library, 136, Apollo Street, Bombay 1.

ANTI-CORRUPTION SOCIETY

23, Bell Bldg., 2nd Floor, Sir P. M. Road, Bombay.

AQUARIST SOCIETY OF INDIA

Sales Service Centre : Fish Fantasy, New Citizen Bank Bldg., Near Palton Road, Bombay 1.

ARCHBISHOP'S EMPLOYMENT BUREAU

National Sodality Centre, Sodality House, Victoria Garden Road, Bombay 8.

ART SOCIETY OF INDIA

Sandhurst House, Sandhurst Road, Bombay 4.

ARUNODAYA KALA NIKETAN

34/1201, Tilak Nagar, Chembur, Bombay 71.

Aims and Objects : Free tuition is given in classical and traditional dance and music for deserving students irrespective of caste and creed.**ARYA SAMAJ**

96-98, Bora Bazar Street, Fort, Bombay 1.

ASIATIC SOCIETY OF BOMBAY

Town Hall, Bombay 1.

ASSOCIATION FOR MORAL AND SOCIAL HYGIENE

Barrack No. 4, Behind 'Yeshodhan', Dinshaw Wachha Road, Bombay-1.

**THE ASSOCIATION OF THE FRIENDS OF THE
MENTALLY ILL**

265/266, Sahakar Nagar, M. H. Board Bldg., No. 9, Chembur, Bombay 71.

ASSOCIATIONS OF PHYSICIANS OF INDIA

Laud Mansion, 3rd Floor, 21, New Queen's Road,
Bombay 4.

BALKAN-JI-BARI

(THE CHILD WELFARE ASSOCIATION OF INDIA) and its
Youth Section AKHIL HIND YUVAK SANGH (THE
ALL-INDIA YOUTH ASSOCIATION).

"Gulistan," Khar, Bombay 52 AS.

BHARAT SEVAK SAMAJ

Narandas Building, Sprott Road, Ballard Estate, Fort,
Bombay.

A national organisation dedicated to the task of promot-
ing national sufficiency.

BHARATIYA DEPRESSED CLASSES LEAGUE

112, Meadows Street, Bombay 1.

BHARATIYA MUSIC AND ARTS SOCIETY

11/138, Poornima, Wadala, Bombay 31.

BOMBAY ADULT EDUCATION ASSOCIATION

136, Apollo Street, Bombay 1.

BOMBAY ADVOCATES' ASSOCIATION

Small Causes Court, Carnac Road, Bombay.

BOMBAY ANDHRA MAHASABHA (REGD.)

Lakhamsi Nappoo Road, Hindu Colony, Dadar,
Bombay 14.

BOMBAY AQUARIUM SOCIETY

Taraporevala Aquarium, Bombay 2.

BOMBAY ART SOCIETY

Jehangir Art Gallery, Bombay 1.

THE BOMBAY ASTROLOGICAL SOCIETY

C/o Janmabhoomi Panchang Karyalaya, 22/26, Ghoga
Street, P. Box No. 62, Fort, Bombay.

BOMBAY CHARTERED ACCOUNTANTS SOCIETY

60, Forbes Street, Fort, Bombay 1.

BOMBAY CONTRACT BRIDGE ASSOCIATION

Brabourne Stadium (North Stand), Veer Nariman Road,
Bombay 1.

**THE BOMBAY CO-OPERATIVE HOUSING
FEDERATION LTD.**

19, Bell Building, Sir P. M. Road, Fort, Bombay 1.

BOMBAY HISTORICAL RESEARCH ASSOCIATION

Secretariat Record Office, Elphinstone College Bldg.,
Bombay 1.

BOMBAY HOMOEOPATHIC ASSOCIATION

311, Tardeo Road, Bombay 7.

BOMBAY INCORPORATED LAW SOCIETY

High Court, New Bldg., Bombay 1.

BOMBAY KANNADA SANGHA

2, Venkatesh Nivas, Bhau Daji Road, Matunga,
Bombay 19.

BOMBAY KERALEEYA SAMAJ

Plot 16A, "Kerala Bhavanam", K. A. Subramanian
Road, Matunga, Bombay 19.

BOMBAY LABOUR BUREAU

Nagpada Neighbourhood House, Byculla, Bombay 8.

BOMBAY LABOUR INSTITUTE

(Government of Maharashtra)

Dadabhoy Chamarbaugwala Road, Parel, Bombay 12.

Director : Dr. B. S. Bhir.

Recognised by the Bombay University as a post-graduate
institute of specialised studies leading to 2-year University
Diploma in Labour Welfare (D.L.W.). The course is open
to Degree holders in B.A., LL.B., or B.Com. of Bombay
University or any other recognised University. B.Sc.,
are admitted with prior approval of the University.

Trains Government Labour Officers, in the short in-
service training course of six months' duration; and the
successful candidates are awarded the Labour Officers'
Certificate (L.O.C.) of the State Government.

The Institute has started a full time one-year post
Intermediate (relaxable to S.S.C. level) Diploma Course
in Trade Unionism and Industrial Relations on behalf of
the Maharashtra Government with a view to equipping
workers and others concerned with the welfare of workers
with adequate information and knowledge on scientific
trade unionism, to encourage workers to become healthy
and sound Trade Unionists, to promote better industrial
relations and to strive for unity in the Trade Union move-
ment.

The Institute operates the State Workers' Education
Scheme on behalf of the Government to train and disci-
pline the mind of the workers, to enable them to be good
and efficient workers and to promote better industrial
relations. The class is open to all factory workers and
each session lasts for 3½ months.

On behalf of the Planning Commission the Institute
conducts from time to time case-studies of Labour-
Management Relations in different units.

BOMBAY MANAGEMENT ASSOCIATION

Army and Navy Bldg., 3rd Floor, Mahatma Gandhi Road,
Bombay 1.

Aims : To promote mutual exchange of knowledge,
experience and ideas on the principles and practices of
Management among its members; to co-operate with
educational institutions in developing schemes of instruc-
tion in Management principles and practice; to establish
a Management Library in the Bombay area.

BOMBAY MEDICAL UNION

Blavatsky Lodge, French Bridge, Chowpatty, Bombay 7.

BOMBAY NATURAL HISTORY SOCIETY

Hornbill House, Opp. Lion Gate, Apollo Street,
Bombay 1.

Devoted entirely to advancement of the study of natural
history of the Oriental Region.

BOMBAY PARSEE ASSOCIATION

C/o Patel Charity Fund, Yusuf Building 1st Floor, Flora
Fountain, Fort, Bombay 1.

BOMBAY PHYSICAL CULTURE ASSOCIATION

22, Nikadwari Lane, Girgaum, Bombay 4.

BOMBAY PRADESH CONGRESS COMMITTEE

Congress House, V. P. Road, Bombay 4.

BOMBAY PRESIDENCY ASSOCIATION

107, Mahatma Gandhi Road, Bombay 1.

BOMBAY PSYCHOLOGICAL ASSOCIATION

Department of Applied Psychology, Univ. of Bombay,
Bombay 1.

BOMBAY SCHEDULED CASTES IMPROVEMENT TRUST

Buddha Bhushan Printing Press Building, Gokuldas Pasta Road, Dadar, Bombay 14.

THE BOMBAY SHORTHAND WRITERS' ASSOCIATION

Regd. Office : No. 1, Krishna Nivas, Station Road, Matunga, Bombay 19; *Branch Office* : 3/3 Kailas Kripa, Scheme 6, Road 1, Sion (East), Bombay 2.

BOMBAY SOCIAL HYGIENE COUNCIL

10, Waterloo Mansions, Apollo Bunder, Bombay 1.

BOMBAY SOCIETY OF MODEL ENGINEERS

Noble Chambers, Rooms 23 and 24, Parsi Bazar Street, Bombay 1.

BOMBAY STATE CYCLING ASSOCIATION

14-A, Jamal Mansion, Sleater Road, Bombay 7.

BOMBAY STATE VOLLEYBALL ASSOCIATION

Morarji Mills Ltd., Parel, Bombay 12.

BOMBAY SUBURBAN VILLAGE INDUSTRIES ASSOCIATION

Basement, Khadi Emporium, 286, D. N. Road, Bombay 1.

BOMBAY TAMIL SANGAM

Sion Road, Bombay 22.

BOMBAY TENANTS' ASSOCIATION

17, Benham Hall Lane, Bombay 4.

THE BOMBAY TEXTILE RESEARCH ASSOCIATION

Bombay-Agra Road, Ghatkopar, Bombay 77.

BOMBAY UNION OF JOURNALISTS

Prospect Chambers Annexe, 2nd Floor, Dadabhai Naoroji Road, Bombay 1.

BOMBAY VIGILANCE ASSOCIATION

124, Dadasaheb Phalke Road, Bombay 14.

The objects of the Association are (1) to secure recognition of the principle that the moral law is the same for both men and women; (2) to suppress and prevent the traffic in women and girls and the outrage, corruption, abduction and prostitution of persons under eighteen; (3) to do rescue and vigilance work in general; (4) to see that the provisions of the Indian Penal Code and of the Prevention of Prostitution Act of 1923, are efficiently carried out; (5) to prevent the publication and sale of indecent and obscene pictures, books and papers, and of objectionable advertisements, cinema films and theatrical performances, and (6) to carry on active propaganda work for the ultimate and complete abolition of brothels. It maintains a shelter for forsaken and destitute women of all communities.

BOMBAY WOMEN'S HOCKEY ASSOCIATION

C/o Bombay Hockey Association Ltd.,
'D' Road, Churchgate Reclamation, Bombay-1.

BOMBAY WOMEN'S WORK GUILD

Readymoney House, Nepean Sea Road, Bombay 6.

BOMBAY ZIONIST ASSOCIATION

(Central Organisation in India)

63-67, Meadows Street, Fort, Bombay. P.O. Box 539.

BRAHMAN SAHAYYAK SANGH

Ganesh Wadi, D. L. Vaidya Road, Dadar, Bombay No. 28 and Plot No. 113-115, Shivaji Park Road No. 3, Bombay 28.

CERCLE LITTERAIRE BIBLIOTHEQUE DINSHAW PETIT—1886

60, Forbes Street, Bombay 1.

Object : To promote the study of French language, literature and civilization, Library and Reading Room.

CHILDREN'S FILM SOCIETY (INDIA)

Hingorani House, Worli, Bombay 18.

CITIZEN'S NATURE CURE SOCIETY

C/o Dr. J. M. Jussawalla, 140, Cumballa Hill, Bombay 26.

COMMERCE GRADUATES' ASSOCIATION

Wadia Bldg., Dalal Street, Fort, Bombay 1.

COMMUNIST PARTY OF INDIA

Bombay Council : Dalvi Bldg., Parel, Bombay 12.

COMPANY SECRETARIES ASSOCIATION OF BOMBAY

4th Floor, Elysium Mansion, Walton Road, Colaba Causeway, Bombay 1.

COUNCIL OF INDUSTRIAL SAFETY

Elphinstone Bldg., Veer Nariman Road, Bombay 1.

THE CRAFTS COUNCIL OF INDIA

Theosophy Hall, 40, New Marine Lines, Bombay 1.

Is a non-official organisation for the promotion of the cultural and creative aspects of Crafts in India.

DEMOGRAPHIC TRAINING & RESEARCH CENTRE

Govandi, Bombay 71.

It is intended to serve the training and research needs in the field of demography of not only India but also other Asian countries.

DEPRESSED CLASSES MISSION SOCIETY OF INDIA

112, Meadows Street, Fort, Bombay.

DIABETIC ASSOCIATION OF INDIA

Maneckji Wadia Bldg., 1st Floor, 127, Mahatma Gandhi Road, Bombay 1.

EAST BOMBAY BHARAT SCOUTS & GUIDES DISTRICT ASSOCIATION

Headquarters : Chunilal Mehta Scout and Guide Hut, Mahatma Gandhi Road, Bombay.

ENGINEERING ASSOCIATION OF INDIA

Western Region

Brabourne Stadium, 87, Veer Nariman Road, Bombay 1.

EX-SERVICES ASSOCIATION, INDIA BOMBAY BRANCH

Cook's Building (2nd floor), Dr. Dadabhoy Nowroji Road, Bombay 1.

FEDERATION OF BOMBAY MOTOR TRANSPORT OPERATORS LTD.

26, Frere Road, Wadi Bunder, Bombay 9.

FEDERATION OF CUSTOM HOUSE AGENTS' ASSOCIATIONS IN INDIA

Warden House, Sir P. M. Road, Bombay 1.

FILM FEDERATION OF INDIA

The Central Organisation of the Indian Film Industry.
91, Walkeshwar Road, Bombay 6.

FIRE SALVAGE ASSOCIATION OF BOMBAY LTD.

Radia House, 6, Rampart Row, Bombay 1.

THE FORMANITES

C/o National Advertising Service P. Ltd., 4th Floor,
Khorshed Bldg., Sir P. M. Road, Bombay 1.

FORUM OF FREE ENTERPRISE

"Sohrab House", 235, Dr. Dadabhai Naoroji Road,
Bombay 1.

FRIENDS OF THE TREES

27, Prospect Chambers Annexe, Dr. D. N. Road,
Bombay 1.

(A Fellowship of tree-lovers seeking to create and
foster a tree-sense in the country).

GANDHI SEVAK SAMAJ

Mani Bhavan, 19, Laburnum Road, Gamdevi,
Bombay 7.

GUJARAT RESEARCH SOCIETY

The Main Office : Samsodhana Sadan, South Avenue,
Khar, Bombay 52.

Exec. Vice-President's Office : Lalit Kunj, 11th Road, Khar,
Bombay 52.

Branch : Paladi (West), Ahmedabad 7.

OBJECTS.—(1) to promote research in all branches
of knowledge, (2) to collect and publish information re-
lating to Gujarat and City of Bombay, (3) to foster inter-
relations with other parts of India and the world.

GUJARATI HINDU STREE MANDAL

123, Vithalbhaji Patel Road, Bombay 4.

HAFFKINE INSTITUTE

Parel, Bombay 12.

Its research activities are oriented towards prevention
and relief of human suffering, specially in the field of
communicable diseases. It also produces vaccines, anti-
venin, antitoxins, blood fractions, etc. It undertakes special
diagnostic services and testing of drugs. Scientists may
study here for Master or Doctorate degrees or could be
trained in special fields.

Director : Dr. N. K. Dutta.

HIND MAZDOOR SABHA

(National Headquarters)

Nagindas Chambers, 167, P. D'Mello Road, Bombay 1.

INDIAN ASSOCIATION OF INDUSTRIAL
EDITORS

Office : Army & Navy Building (3rd Floor), Mahatma
Gandhi Road, Fort, Bombay 1.

INDIAN CANCER SOCIETY

Tata Memorial Hospital, Parel, Bombay 12.

Scientific investigation of the cause, prevention and
control of Cancer, public education on Cancer and educa-
tion of the medical profession in latest methods of detec-
tion, diagnosis and treatment of Cancer; combating
quackery; sponsoring of research — both fundamental
and clinical on the diagnosis, treatment and cure of
Cancer; establishment of free detection centres, in various
centres throughout India, undertaking international co-
operation in research, encouraging visiting professorships,
awarding scholarships and fellowships in Cytology,

Chemotherapy and Rehabilitation; giving relief and
rehabilitation to indigent Cancer patients; donating
apparatus to hospitals and research institutions; Organi-
sing of All India Cancer Conferences, Cancer Exhibitions,
etc.

INDIAN CHEMICAL SOCIETY

(Bombay Branch)

Institute of Science, Mayo Road, Bombay 1.

INDIAN COMMITTEE FOR CULTURAL FREEDOM

148, Mahatma Gandhi Road, Bombay 1.

INDIAN COUNCIL FOR CULTURAL RELATIONS

W. Regional Office : Kimatrai Bldg., 79, Queen's Road,
Bombay 2.

INDIAN COUNCIL OF MANAGEMENT EXECUTIVES

P. Box 4586, Bombay 8.

THE AIMS ARE :—To promote and develop the Science
of Management in Industry. To conduct short term train-
ing courses in Management. To compile a national Directory
for Management Executives. To conduct Management
Executive Training College.

INDIAN COUNCIL OF SOCIAL WELFARE

Central Office : 175, Dadabhoy Naoroji Road, Bombay 1.

Object : Promotion of social welfare in India and a
National Committee of the International Conference of
Social Work.

President : Prof. A. R. Wadia ; Executive Secy. : S. D.
Gokhale.

INDIAN DOCUMENTARY PRODUCERS'
ASSOCIATION

National House, Tulloch Road, Bombay 1.

INDIAN INSTITUTE OF WORLD CULTURE

(Bombay Branch)

Theosophy Hall, 40, New Marine Lines, Bombay 1.

INDIAN MEDICAL ASSOCIATION

(Bombay Branch)

Shri Nivas, Sardar Vallabhbhai Patel Road, Bombay 4.

INDIAN NATIONAL THEATRE

Agakhan Building, 9, Dalal Street, Bombay 1.

INDIAN RAILWAY PASSENGERS CONFERENCE
ASSOCIATION

23, Bell Building, Sir Phirozshah Mehta Road, Bombay 1.

Assistance to railway passengers in their dealings with
the Railways with regard to their obligations to each other ;
restoration of run-away boys to their parents ; elimination
of crimes on railways against the person and property of
railway passengers ; free legal help to railway passengers,
etc.

INDIAN RUBBER MANUFACTURERS' RESEARCH
ASSOCIATION

Rahimtoola House, 7, Homji Street, Fort, Bombay.

INDIAN SOCIETY OF AGRICULTURAL ECONOMICS

46-48, Esplanade Mansions, Mahatma Gandhi Road, Fort,
Bombay.

INDIAN SOCIETY OF RAYON TECHNOLOGISTS

144, Dharavi Road, Bombay 17.

THE INDO-AMERICAN SOCIETY

Kitab Mahal, 5, Raveline Street, Bombay 1.

INDO-ARAB SOCIETY

12, Nagin Mahal, Veer Nariman Road, Bombay 1.

INDO-GERMAN CULTURAL SOCIETY

127, Mahatma Gandhi Road, Bombay 1.

INDO-JAPANESE ASSOCIATION

12, Rampart Row, Bombay 1.

INDO-SOVIET CULTURAL SOCIETY NATIONAL COUNCIL

Syndicate Bank Building, 4th Floor, Phirozshah Mehta Road, Fort, Bombay 1.

INSTITUTE OF INDUSTRIAL ENGINEERS (INDIA)

C/o Voltas Ltd., Ballard Estate, Bombay 1.

INSTITUTE OF SOCIAL SERVICE

Nirmala Niketan, 38, New Marine Lines, Bombay.

THE INSTITUTION OF ELECTRICAL ENGINEERS

1, Forbes Street, Fort, Bombay 1.

INSTITUTION OF ENGINEERS (INDIA)

Bombay Centre.

Library, Reading Room and Office: Ilaco House, Sir Pherozshah Mehta Road, Bombay 1.

INTERNATIONAL COUNCIL ON SOCIAL WELFARE
Regional Office for South East Asia and Western Pacific Region.

175, Dadabhai Naoroji Road, Bombay 1.

To assist the Social Welfare Development work in 25 countries (15 National Committees and 6 Ad-hoc Committees). It also organises Regional Meetings, Exchange of persons, granting of fellowships and has a Division on Documentation and International Research.

IRAN LEAGUE

Navsari Building, D. Naoroji Road, Bombay 1.

ISMAILIA ASSOCIATION

For India.

Karimabad, Imamwada Road, Bombay 9.

The object is uplifting and elevating the poor without distinction of caste or creed.

JAMSETJEE NESSERWANJEE PETIT INSTITUTE

312, Dr. Dadabhoy Naoroji Road, Bombay 1.

KANARA SARASWAT ASSOCIATION

13, 1-2, Association Building, Talmakiwadi, Tardeo Road, Bombay, 7 W.B.

KERALEEYA MAHILA SAMAJ

Cadell Road, Shivaji Park, Bombay 6.

LOKMANYA SEVA SANGH

Tilak Mandir, Vile Parle (East), Bombay No. 57.

MAHARASHTRA BOARD OF AYURVEDIC AND UNANI SYSTEMS OF MEDICINE

Esplanade Mansions, 144, Mahatma Gandhi Road, Bombay 1.

MAHARASHTRA CO-OPERATIVE HOUSING FINANCE SOCIETY LIMITED

Raja Bahadur Building, 1st Floor, Flat No. 4, 20, Hamam Street, Fort, Bombay 1.

MAHARASHTRA FRIENDSHIP SOCIETY

Mistry Court, 208, D. Watcha Road, Bombay 1.

MAHARASHTRA MEDICAL COUNCIL

Swadeshi Mills Estate, Tata Road, New Queen's Road, Bombay 4.

MAHARASHTRA NURSING COUNCIL

Zoroastrian Bldg., 2nd Floor, 16, Horniman Circle, Bombay 1.

MAHARASHTRA RAJYA SHARIRIK SHIKSHAN MAHAMANDAL

B.D.D. Chawl No. 10, Delisle Road, Bombay-11.

THE MAHARASHTRA STATE AMATEUR BOXING ASSOCIATION

31, Murzban Road, Bombay 1.

MAHARASHTRA STATE ANGLING ASSOCIATION

C/o Baloise Marine Insurance Co. Ltd., French Bank Bldg., Homji St., Bombay 1.

MAHARASHTRA STATE ANTI-TUBERCULOSIS ASSOCIATION

Red Cross Building, Mint Road, Fort.

MAHARASHTRA STATE AQUATIC ASSOCIATION

C/o Victoria Swimming Bath, Backbay, Bombay 1.

MAHARASHTRA STATE BADMINTON ASSOCIATION

C/o Secretariat of Bombay Sporting Assens., Brabourne Stadium (North Stand), Bombay 1.

MAHARASHTRA STATE BASKETBALL ASSOCIATION

4/24, Brahmanwada Road, Bombay 19.

MAHARASHTRA STATE BHARAT SCOUTS & GUIDES

State Headquarters:

Hamam House, Hamam Street, Bombay 1.

MAHARASHTRA STATE BILLIARDS ASSOCIATION

C/o Islam Gymkhana, Kennedy Sea Face, Bombay 2.

MAHARASHTRA STATE CARROM ASSOCIATION

Nagpada Neighbourhood House, New Nagpada, Nagpada Road, Bombay 8.

MAHARASHTRA STATE DENTAL COUNCIL

Swadeshi Mills Estate, Near Roxy Cinema, Tata Road, New Queen's Road, Bombay 4.

MAHARASHTRA STATE KHADI & VILLAGE INDUSTRIES BOARD

Bhatia Balrakshak Vidyalaya, 19/21, Manohardas Street, Fort, Bombay.

MAHARASHTRA STATE PHARMACY COUNCIL

Soorya Mahal, 5, Military Square Lane Corner, Medows Street, Bombay 1.

MAHARASHTRA STATE TENNIS ASSOCIATION

C/o Secretariat of Bombay Sporting Assens., Brabourne Stadium (North Stand), Churchgate, Bombay.

MAHARASHTRA STATE WOMEN'S COUNCIL

Town Hall, Bombay 1.

Branches: Poona Women's Council, Poona, Samata Darshan Association, Aurangabad, Mahila Mandal, Matheran.

MAHILA KALA NIKETAN

Gamdevi, Bombay 7.

This institution imparts industrial education to all women irrespective of caste or creed.

MARATHA BHAGINI SAMAJ

32-C, Khotachi Wadi, Girgaum, Bombay 4.

MARATHA MANDIR LTD.

Dr. Anandrao Nair Road, Bombay 8.

MARATHI SANSHODHAN MANDAL

Mumbai Marathi Granthasangrahalaya, 172, Naigaum Cross Road, Dadar, Bombay 14.

MECHANICAL ENGINEERS' ASSOCIATION (INDIA)

Janmabhoomi Chambers, 29, Fort Street, Bombay 1.

MIDDLE CLASS PEOPLE'S CONVENTION

12, Rampart Row, Bombay 1.

MOGAVEERA YUVAK SANGHA

46, Vir Nariman Road, Bombay 1.

MUMBAI MARATHI SAHITYA SANGH

(Sangha Mandir, Kelewadi, Girgaum, Bombay 4).

MYSORE ASSOCIATION

393, Bhau Daji Road, Matunga, Bombay 19.

N. C. CORPORATION PRIVATE LTD.

Stadium House, 3rd Floor, Vir Nariman Road, Bombay 1.

To spread 'God-Guided Economics', in industry, trade and administration particularly.

NATIONAL ASSOCIATION OF PURCHASING EXECUTIVES

Cecil Court, 5th floor, Lansdowne Road, Apollo Bunder, Bombay 1.

NATIONAL INDIAN ASSOCIATION

The Cliff, Ridge Road, Bombay 6.

The advancement of education of women in Bombay colleges by award of scholarships; the promotion of friendly intercourse by social gathering and lectures.

NATIONAL INSTITUTE FOR THE PERFORMING ARTS

Bombay House, 4th Floor, Bruce Street, Fort, Bombay 1.

Chairman of the Council : J. R. D. Tata ; *Executive Director* : Dr. V. K. Narayana Menon.

NATIONAL INSTITUTE OF LABOUR MANAGEMENT

M. G. Textile Technical School Premises, Parel, Bombay 12.

THE NEUROLOGICAL SOCIETY OF INDIA

534, Sandhurst Bridge, Bombay 7.

ORIENTAL INSTITUTE OF INDIAN LANGUAGES

32, Khorshed Building, Sir P. M. Road, Bombay 1.

PASSENGERS' AND TRAFFIC RELIEF ASSOCIATION

Anand Bhavan, 346, D. Naoroji Road, Fort, Bombay 1.

THE P. E. N. ALL-INDIA CENTRE

Theosophy Hall, 40, New Marine Lines, Bombay 1.

Indian Branch of the International P.E.N. Club of leading poets, playwrights, editors, essayists, novelists.

PHILATELIC SOCIETY OF INDIA

Hon. Secretary : D. E. Wadia, "B" Block, Shireen Mansion, Tardeo Road, Bombay 7.

PHOTOGRAPHIC SOCIETY OF INDIA

Saheb Building, 195, Dr. D. N. Road, Bombay 1.

PORT HAJ COMMITTEE

Seth Mahomed Haji Saboo Siddick Musafirkhana, Carnac Road, Bombay 1.

PRESS ASSOCIATION OF INDIA

196B, Gaiwadi, Girgaum, Bombay 4.

PRESS GUILD OF INDIA

Majestic Hotel, 3rd Floor, Bombay 1.

PROTEIN FOODS ASSOCIATION OF INDIA

Mahalaxmi Chambers, 22, Bhulabhai Desai Road, Bombay 26.

PUNJAB ASSOCIATION

403, Loha Bhavan, Frere Road, Bombay 9.

SIR RATAN TATA INDUSTRIAL INSTITUTE*Address* : Hughes Road, Bombay 7.

The Institute helps to partially solve the problem of poverty and distress among Parsi families from the lower income groups, by encouraging girls and women to earn a living through suitable industries.

RATHESTAR MANDAL

A Parsi association for upliftment of the Parsi community.

REGIONAL GRAND LODGE OF WESTERN INDIA

Freemasons' Hall, Raveline Street, Fort, Bombay.

RELIGIOUS AMITY CENTRE

Mistry Court, 208, D. Watcha Road, Bombay 1.

ROHIDAS (HARIJAN) EDUCATION SOCIETY

112, Medows Street, Bombay 1.

ROHIDAS SUDHARAK MANDAL

B.D.D. Block No. 12-B, Room No. 54, Naigaum, Bombay 14.

SAFETY FIRST ASSOCIATION OF INDIA

Stadium House, 2nd Floor, Veer Nariman Road, Bombay 1.

Is devoted to conservation of life and property; acts as clearing house on accident prevention matters; arranges lectures, exhibitions and film shows.

SAHAKARI KELAVANI MANDAL

Sahakar Nivas, 20, Tardeo Road, Bombay 34.

THE SALES TAX PRACTITIONERS' ASSOCIATION

Mohata Market, 5th floor, Room No. 8, Palton Road, Bombay 1.

SAMYUKTA KARNATAK SANGHA

Navsari Building, D. Naoroji Road, Bombay 1.

SANSKRIT VISHVA PARISHAD

(World Academy of Sanskrit)

Bharatiya Vidya Bhavan, Chowpatty, Bombay 7.

SANTA CRUZ MALAYALEE SAMAJAM

14, Air View Building, Vakola, Bombay 55.

SANTA CRUZ WELFARE LEAGUE

"Anand Kunj", Dadabhai Road, Santa Cruz West,
Bombay 54.

THE SEA CADET CORPS

T.S. "Jawahar", Pilot Bunder Road, Bombay 5.

The Sea Cadet Corps is a Voluntary Youth Organization whose objects are to give boys and girls aged 12 to 18 sea training and such other training as will develop in them qualities of good citizenship, and to help boys wishing to make their career at sea achieve their ambition.

There are over 600 Cadets in Bombay besides Units in Calcutta, Madras and Tiruchirappalli.

The Cadets attend instructional classes outside school hours and on Sunday mornings on board their National Headquarters T.S. 'JAWAHAR', built at the cost of a million rupees which was commissioned by the President of India on Feb. 10, 1967.

Secretary to the Sea Cadet Council and Captain Supdt. of the Sea Cadet Corps: G. S. Ahuja.

SERVANTS OF INDIA SOCIETY

BOMBAY BRANCH

Sardar V. Patel Road, Girgaum, Bombay 4.

SEVA SADAN

Gamdevi, Bombay 7.

SHILPI KENDRA

Majestic, Colaba Causeway, Bombay 1.

Aims and Activities: To promote traditional handicrafts of India and give encouragement to Indian craftsmen.

Shilpi Kendra provides all information on Indian Handicrafts, their availability and Centres. It gives Annual Awards to Master Craftsmen for recognition of their great skill. It runs Shilpi Kendra Emporium, a non-profit making organisation, to help Indian Craftsmen to their legitimate earnings.

SHRI BRIHAD BHARATIYA SAMAJ

N. K. M. International House, 178, Backbay Reclamation,
Bombay 1.

(Transit Camp: Congress House, Vithalbhai Patel Road,
Bombay 4).

A society for the promotion of economic, social, educational and cultural interests of Indians abroad.

S. K. Patil (*Chairman*), Babubhai M. Chinai, M.P. (*Hon. Treasurer*); C. L. Gheevala (*Hon. Secretary*).

SHRI SHANMUKHANAND FINE ARTS &
SANGEETHA SABHA

Flank Road, Sion East, Bombay 22.

SILK & ART SILK MILLS' RESEARCH
ASSOCIATION

"Sasmira", Dr. Annie Besant Road, Worli, Bombay 18.

SOCIAL SERVICE LEAGUE

Servants of India Society's Building, Vallabhbhai Patel
Road, Girgaon, Bombay 4.

SOCIAL WORKERS' SOCIETY

207, Bazar Gate Street, Bombay 1.

SOCIETY FOR THE CAUSE OF MOTHERS' LINEAGE
Plot No. B2, House No. R. 105, Theosophical Colony, Juhu,
Bombay 54.

SOCIETY FOR COMPILATION OF INDIAN
BIOGRAPHIES

Congress House, V. P. Road, Bombay 4.

SOCIETY OF GOODWILL AND CULTURE

Darya Bldg., 2nd Floor, 375, Dr. Dadabhoy Naoroji Road,
Bombay 1.

SOCIETY OF THE JUSTICES OF THE PEACE
AND THE HONORARY PRESIDENCY
MAGISTRATES OF BOMBAY

116, "Giriraj", Sant Tukaram Road, Near Carnac Bridge,
Bombay 9.

SOHRAB F. BHAROOCHA
ARCHITECTURAL LIBRARY

Prospect Chambers Annexe, 32-34, Dadabhoy Naoroji
Road, Bombay 1.

SOUTH INDIAN CO-OPERATIVE CENTRAL
WHOLESALE STORES LTD.

Telang Road, Matunga, Bombay 19.

SUR-SINGAR SAMSDAD

Arun, Narayan Dabholkar Road, Bombay 6.

TARAPOREVALA MARINE BIOLOGICAL
RESEARCH STATION

Taraporevala Aquarium, Bombay-2.

TATA AGRICULTURAL AND RURAL
TRAINING CENTRE FOR THE BLIND

Jehangir Wadia Bldg., Mahatma Gandhi Road, Bombay 1.

TAX-PAYERS' ASSOCIATION OF INDIA, LTD.

Fort Chambers A, Dean Lane, Hamam Street, Fort,
Bombay 1.

TEXTILE INSTITUTE

Bombay Section

C/o. J. G. Parikh, "Sasmira",

Dr. Annie Besant Road, Worli, Bombay 18.

TOURIST COURTESY COMMITTEE

"Mistry Court", Opp. C.C.I., 208, D. Watcha Road,
Bombay 1.

UNITED KINGDOM CITIZENS' ASSOCIATION
[BOMBAY BRANCH]

Cook's Bldg., Dr. Dadabhoy Naoroji Road, Bombay 1.

UNITED LODGE OF THEOSOPHISTS

40, New Marine Lines, Bombay 1.

UNITED SEAFARERS' FEDERATION

235, Husseini Building, Frere Road, Fort, Bombay 1.

VISVA YOGA BHARATI

Vallabhnagar, Borivli, Bombay 92.

Objects: To train yogic staff to man educational institutions.

Constituted Institutions: Rajayoga-Vedanta Centre; Raja-Yoga Vanaprastha Asrama; Dhayana Yoga Brahmanchari Gurukula; Central Yoga-Natural Therapy Training College, Clinic, Hostel and Sanatorium.

Founder President: Swami Rajayogi Nathji Ananda;
Principal Secretary: Yogiraj Anand Dhruva.

WESTERN INDIA FOOTBALL ASSOCIATION

Cooperage Football Ground, Bombay 1.

WESTERN INDIA NATIONAL LIBERAL ASSOCIATION

107, Esplanade Road, Bombay 1.

YOGA INSTITUTE

Headquarters, Santa Cruz, Bombay 55.

Its activities are: Academic researches, scientific investigations, training in Yoga clinics, publication of texts, journal on Yoga, and cultural activities.

Secretary : Smt. Sitadevi.

YOGA SCIENCE UNIVERSITY

Yogamahavidyalaya Vidjnan Vidyapeeth.

Purshottam Bldg., Opp. Royal Opera House, 3, Maharashi Karve Road, Bombay 20.

YOGIC SELF-CULTURE SOCIETY

Sadachar Jeevan Samiti

(For simultaneous and harmonious development of spirit force, intellect and health through Yoga)

5, Vallabhnagar, Borivli, Bombay 92.

YOUNG MEN'S HINDU ASSOCIATION

141, Vithalbhair Patel Road, Bombay 4.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION

18, Madame Cama Road, Fort, Bombay 1.

ZOROASTRIAN ASSOCIATION

16, Horniman Circle, Bombay 1.

ZOROASTRIAN BROTHERHOOD

C/o Jehanbax Bomanshaw Vatcha, Tafti Building, South Frere Bridge, Grant Road, Bombay 7.

EDUCATIONAL INSTITUTIONS IN GREATER BOMBAY TECHNICAL INSTITUTIONS

ADARSHA ART TAILORING COLLEGE (Hanuman Road, Vile Parle).

ADARSHA KALA KENDRA (D. L. Vaidya Road, Dadar, Bombay).

ADARSHA MAHILA CLASS (Kama Lane, Ghatkopar, Bombay).

ADVIRKAR TAILORING COLLEGE (316A, Hemraj Wadi, Thakurdwar, Tram Naka, Bombay 2).

AMULAKH AMICHAND BHIMJI VIVIDHLAKSHI VIDYALAYA (Behind Aurora Cinema, King's Circle, Bombay 19).

ANJUMAN-I-ISLAM JAN MOHOMAD CASSUM COMMERCIAL HIGH SCHOOL (Sandhurst Road).

ANJUMAN-I-ISLAM JAN MOHOMAD CASSUM COMMERCIAL NIGHT HIGH SCHOOL (Sandhurst Road).

ANJUMAN-E-TALIMUL MUSALMAN SEWING & CUTTING CLASS (Pinjara Chawl, Clerk Road, Bombay-11).

A. S. PATEL ACADEMY FOR DOMESTIC ARTS (Classes attached to Bai Bhikajee S. Bengalee Girls' High School, 42, New Marine Lines, Fort).

B. J. KATRAK TRAINING CLASSES (723, Dinshaw Master Road, Parsee Colony, Dadar, Bombay 14).

B. N. GAMADIA PARSEE HUNNARSHALA (Gamadia Parsee Colony, Tardeo, Bombay).

BENNE ISRAEL STREE MANDAL CLASSES, (Sajan Bldg., 2nd Peerkhan Street, Bombay 8).

BHAGINI SAMAJ (Tardeo Kendra, Sonawala Building Hall, Tardeo, Bombay 7).

Y.W.C.A. COMMERCIAL SCHOOL (18, Madame Cama Road, Bombay 1).

BHAGINI SAMAJ BHULESHWAR CENTRE (Jai Hind Estate Building, 3 South Wing, 1st Floor, C. P. Tank, Bombay).

BHAGINI SAMAJ CHANDABEN UDYOGA MANDIR (225, Khetwadi Main Road, Bombay).

BHAGINI SEVA MANDIR (Sarojini Road, Vile Parle, Bombay 57).

BHARATIYA KALA KENDRA (388, V. P. Road, Ahilya Bldg., Near Congress House, Bombay 4).

BHARTIYA KALA VIKAS (Prashant, 17th Road, Khar, Bombay 51).

BHARTIYA STREE SEVA SAMAJ (25, B. Sonawala Bldg., No. 8, Sleater Road, Tardeo, Bombay-7).

BHARATIYA STREE SEVA SANGH (Bhartiya Vidya Bhuvan, Chowpatty, Bombay 7).

BHATIA STREE MANDAL (Mangesh Shenoy Street, Fort, Bombay).

BHATIA STREE HUNNAR UDYOG GRIHA (Kolbhat Lane, Kalbadevi, Bombay-2).

BOMBAY TECHNICAL SCHOOL (C/o Saraswati School, Girgaum, Bombay 4).

BRAHMAN SABHA MAHILA SHAKHA (Shankar Wadi, 190, Charni Road, Bombay 4).

CHEMBUR TAILORING COLLEGE (Near Bus Stand, Chembur Camp, Chembur, Bombay 71).

COLLEGE OF CATERING AND INSTITUTIONAL MANAGEMENT, Andheri.

CUTCHI LOHANA SAHAKARI MANDAL (Mahila Hunnar Udyog Griha, Laxmi Narayan Lane, Matunga (C.R.), Bombay).

DADAR ELECTRIC INSTITUTE (Bole Wadi, Near Portuguese Church, Dadar, Bombay 28).

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DAWOODBHOY FAZALBHOY MUSLIM WOMEN'S HANDICRAFT INSTITUTE (42, Pydhonie Road, Khadak, Bombay).

DESHASTHA MARATHA DNYATI DHARMA SANTHA SHIVAN KALA KENDRA (6, Raghunath Maharaj St., Mandvi, Bombay-3).

ELECTRONIC INSTITUTE (364-C-D, Lodiwala Joshi Compound, N. C. Kothari Road, Dadar, Bombay 28).

ELPHINSTONE TECHNICAL HIGH SCHOOL (Cruickshank Road, Dhobi Talao).

GENERAL OFFICE TRAINING INSTITUTE (371, Dr. D. N. Road, Bombay 1).

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GHATKOPAR STREE HUNNAR UDYOG SHIVAN VARGA (Hansraj Morarji Wadi, Mahatma Gandhi Road, Ghatkopar, Bombay).

GHELABHAI PUNSEY MAHILA UDYOG GRIHA (12, Dr. Maisari Road, Bombay-9).

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- GOVERNMENT POLYTECHNIC (C/o Elphinstone Technical High School Compound, Bombay 1).
- GOVERNMENT TANNING INSTITUTE (Bandra).
- GOVT. TECHNICAL HIGH SCHOOL (Vile Parle, Bombay 57).
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- GUJARATI HINDU STREE MANDAL (Hiravati Hall, Tagore Road, Santa Cruz, Bombay 54).
- GUJARATI MAHILA KALA KENDRA (Bombay City Social Edn. Committee, Bhawani Shankar Road, Dadar).
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- KANDIVLI TAILORING & EMBROIDERY INSTITUTE (Dhanmal Vidya Bhavan, Mathuradas Road, Kandivli).
- KASTURBA MAHILA MANDAL, Jivan Prakash, Tulse Pipe Rd., Mahim, Bombay 16.
- KATCHI LOHANA MAHAJAN MAHILA MANDIR (Narottam Road, Mulund).
- KSHATRAIKYA SAMAJ KALA KENDRA (Vanmali Hall, Dadar, Bombay).
- KUMBARWADA SANSKAR KENDRA (Mahila Mandal, Durgadevi Park, Bombay 4).
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- MAHILA KALA BHAVAN (Vinayak Bhavan, Opp. Diamond Talkies, Borivli).
- MAHILA KALA BHUVAN (D. L. Vaidya Road, Ram-murat Road, Dadar, Bombay 28).
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- NAVA BHARAT KALA MANDIR (336, Bhai Jivnaje Lane, Thakurdwar, Bombay 2).
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R. H. PATUCK TECHNICAL HIGH SCHOOL (Nehru Road, Santa Cruz East).

R. V. TECH. HIGH SCHOOL (17th Road, Khar, Bombay 52).

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SEVA SAMAJ MARWADI BUNGALOW, Borivli.

SHIVAN KALA KENDRA (Naigaon Labour Welfare Centre, Naigaon, Bombay 14).

SHIVAN KALA MANDIR (Jamat Khana Bldg., Kurla, Bombay 70).

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SHRI DHARMA SHIKSHAN & NIRASHRIST SAHA-YAK MANDAL (Shivaji Hall, Byculla, Bombay).

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Ida Mansion, 18, Karwar Street, Fort, Bombay.

MISSIONARY AND RELIGIOUS SOCIETIES IN GREATER BOMBAY

AHMADIYYA MOVEMENT

Local Branch : 'Alhaq', 17, Club Back Road, Bombay 8.

Headquarters :—Qadian, Dist. Gurdaspur, Punjab, India.

ANJUMAN-I-FAIZ-I-PANJETANI

69, Samuel Street, Bombay 9.

The aims and objects of Anjuman-i-Faiz-i-Panjetani are to render service to pilgrims to the Hedjas, Iraq, Iran, etc.

ASTHIKA SAMAJ

Asthika Samaj Building, King's Circle, Matunga, Bombay 19.

BIBLE SOCIETY OF INDIA AND CEYLON

India House, Opp. G.P.O. Fort Street, Bombay 1.

BOMBAY SPIRITUAL CENTRE

Indra Kunj,

2, Laburam Road, Gamdevi, Bombay 7.

BOMBAY ZOROASTRIAN JASHAN COMMITTEE

Navsari Building, Dr. Dadabhoy Naoroji Road, Bombay 1.

CHINMAYA MISSION

Sandupany Sadhanalaya, Powai, Bombay 70.

CHURCH MISSIONARY SOCIETY

Mission House, Proctor Road, Bombay 7.

INTER MISSION BUSINESS OFFICE

Financial Hqrs., American Missionary Societies, 364, Dr. Dadabhoy Naoroji Road, Bombay 1.

MAHA BODHI SOCIETY OF INDIA

(Bombay Branch)

Bahujan Vihar, Buddha Temple Street, Parel, Bombay 12.

MAI ADHERENTS' INSTITUTE

Mai Niwas, Saraswati Road,
Santacruz West, Bombay 54.

Founder : Late U. R. M. Mai's Mercy, Mai Swarup, Mai Markand. *Spiritual Successor* : Universal Religionist Mai-ism, Mai's Mercy, Mai Markand C. R. Nair.

Branch Institutes : (1) Trichur : Kizhakkumpattukara, Trichur 5 (Kerala); (2) Perintalmanna (Kerala); (3) Madras : 55-S. M. V. Koil Street, Triplicane, Madras-5; (4) Palghat : Mai Soudham, Vadakkanthara, Palghat; (5) Mai Nagar, Polpully, Palghat.

This is an institute of brothers and sisters for the propitiation of God as Universal Mother, through Universal love, service, devotion and unconditional cheerful self-surrender and co-equal status of man and woman for invoking Mother's Mercy and Blessing with prayers and worship for universal peace, welfare and relief, and Mother's Mercy for individual bliss, peace and prosperity. The basic beliefs of Mai-ists are (1) Unity of all religions; (2) Universal relation of all human beings as members of one family having no communalism, provincialism, nationalism and racialism, (3) For Mother's Love, Grace, Devotion and Mercy, the daily practice of Universal Sisterhood and Brotherhood is indispensable and (4) Mai-ist's highest ideal:—Motherhood of God and Universality.

PRARTHANA SAMAJ

Girgaum, Bombay 4.

RAMAKRISHNA MISSION ASHRAM

Khar, Bombay 52.

SHREE AYYAPPA BHAKTA SAMITI

Star of Cochin, Opp. Broadway Cinema, Dadar,
Bombay 14.

SOCIETY OF SERVANTS OF GOD

Mayfair, 34, Little Gibbs Road, Bombay 6.

THEOSOPHICAL SOCIETY

Blavatasky Lodge, T.S. French Bridge,
Bombay 7.

WESTERN INDIA UNION OF SEVENTH-DAY ADVENTISTS

HEADQUARTERS ADDRESS : 16, Club Road,
Byculla, Bombay 8.

DISTRICTWISE ASSOCIATIONS IN MAHARASHTRA DISTRICTS

Ahmednagar to Yeotmal

American Marathi Mission, Ahmednagar; Ahmednagar Education Society, Ahmednagar; Hind Seva Mandal, Ahmednagar; Ahmednagar Jilha Saksharta Prasarak Mandal, Ahmednagar; Sarvodaya Centre, Rajur, Akola; Ahmednagar Pressowners' Association, Ahmednagar; Ahmednagar District Leprosy Relief Association, Ahmednagar; Indian Red Cross T.B. Sanatorium, Arangaon, Ahmednagar; Ahmednagar District Council for Child Welfare, Ahmednagar; Women's Rescue Home, Ahmednagar; Anath Vidyarthi Griha, Ahmednagar; Ahmednagar District Farmers' Union, Ahmednagar; Mahila Mandal, Ahmednagar; Ahmednagar Medical Association, Ahmednagar; Satya Nikaten Village Industries Association, Rajur; Ahmednagar Adat Bazar Merchants' Association, Ahmednagar.

VIDARBHA CHAMBER OF COMMERCE

Akola.

SHARADA UDYOG MANDIR

Near Jaystambha, Amravati.

It is a charitable and industrial institution to help widows and poor women by teaching handicrafts, tailoring, embroidery, etc.

SHRI SHIVAJI LOKA VIDYAPITHA (PEOPLE'S UNIVERSITY OF LITERATURE, ARTS, CRAFT AND CULTURE)

Shivaji Nagar, Morshi Road, Amravati.

VIDARBHA MAHAROGI SEVA MANDAL

Tapovan, Amravati.

A social organisation started mainly for the treatment of leprosy patients and eradication of leprosy from the State.

INDIAN INSTITUTE OF PHILOSOPHY

Amalner.

PRINCE SHIVAJI EDUCATION SOCIETY

Sykes Extension, Kolhapur.

KOLHAPUR UDYAM COOPERATIVE SOCIETY LTD.

Shivaji Udyam Nagar, Kolhapur 2.

SHRI MOUNI VIDYAPEETH

Gargoti, Kolhapur.

It is a research and experimental centre in the field of rural education.

ALTRUSA CLUB

(Assocn. of Women in Profession & Business)
C/o Dr. (Miss) S. Iyengar, L.A.D. Coll. for Women,
Nagpur 1.

BLIND RELIEF ASSOCIATION

South Ambazari Road, Nagpur.

NATIONAL CIVIL DEFENCE COLLEGE

Nagpur.

CHRISTIAN MEDICAL ASSOCIATION OF INDIA

Office : Christian Council Lodge, Nagpur.

INSTITUTION OF ENGINEERS (INDIA)

North Ambazari Road, Nagpur.

MAHAVIDARBHA CHAMBER OF COMMERCE & INDUSTRIES

Vohuman Lodge, Byramji Town, Nagpur 1.

MINERAL INDUSTRY ASSOCIATION

'Mineral House', Nagpur.

NAG-VIDARBHA CHAMBER OF COMMERCE

Suraya Vilas, Temple Road, Civil Lines, Post Box No. 33,
Nagpur.

President : Ranchoddas Mohota; *Secretaries* : V. D. Loya, H. M. Shukla.

NAGPUR CHAMBER OF COMMERCE LTD.

Cotton Market, Nagpur 2.

NAGPUR ORANGE GROWERS' CO-OPERATIVE ASSOCIATION LTD.

Motibagh, Nagpur.

NATIONAL ASSOCIATION OF PHYSICAL EDUCATION AND RECREATION, INDIA

Mahal, Nagpur 2.

NATIONAL COUNCIL OF WOMEN IN INDIA

Dolly Dale, Byramji Town, Nagpur.

SHRI RAMAKRISHNA ASHRAMA

Dhantoli, Nagpur 1.

SHRI SHRADHANAND ANATHALAYA

Shradhanand Peth, Nagpur.

THE TEXTILE MILLS' ASSOCIATION

Subedhar's Bungalow, Road, B, Street 4, P.O.

No. 3, Dhantoli, Nagpur.

VIDARBHA SAMSHODHANA MANDAL
(VIDARBHA RESEARCH SOCIETY)

Near Law Coll., West High Road, Nagpur 1.

VIDARBHA SMALL SCALE INDUSTRIES
ASSOCIATION

Liberty Bldg., Sadar, Nagpur 1.

YOUTH HOSTELS' ASSOCIATION OF INDIA

87, West Park Road, Dhantoli, Nagpur.

Hansraj Pragji Thackersey College, Nasik; Government Training College for Women, Nasik; Police Training College, Nasik; Convalescent Home (H. M. Phipson), Nasik Road; Niranjan Durlabhji Khetan Bal-Mandir, Panchvati; Maharshi Shinde Training College, Nasik; Radionic Institute, Main Road, Nasik; Anath Mahila Ashram, Tilabhandeshwar Lane, Nasik; Nasik Saraf Association, Saraf Bazar, Nasik; Red Cross Society, Ambedkar Colony, Nasik; B. Y. K. College of Commerce, Nasik; Bhonsale Military School, Nasik; Hindi Madhyamik Vidyalaya, Gandhi Nagar; Adarsha Montessori School Nasik; Khadi Gramodyog Vidyalaya, Post Trim-bak Vidyamandir, Nasik; Maharashtra Engg. Research Institute, Nasik; Dr. K. N. B. Memorial Sanatorium for Parsis, Deolali; M. R. H. Sanatorium, Nasik Road; Barnes High School, Deolali.

NASIK DISTRICT CHAMBER OF COMMERCE

986, Ravivar Peth, Nasik City.
Poona.ALL INDIA NON-EDIBLE OIL INDUSTRY
ASSOCIATION'Taru Sneha', 1153, Ganeshkhind Road,
Shivajinagar, Poona 16.BHANDARKAR ORIENTAL RESEARCH
INSTITUTE

Poona 4.

Objects : To publish Critical Editions of texts and original works on Oriental antiquities and in general to promote the cause of Oriental studies.

BHARATA ITIHASA SAMSHODHAKA
MANDALA

1321, Sadashiva Peth, Poona 2.

CAMP EDUCATION SOCIETY

Poona 1.

CENTRAL INSTITUTE OF MANAGEMENT
FOR CONSUMERS' BUSINESS

78, Koregaon Park, Poona 1.

CENTRAL MENTAL HOSPITAL

Yeravda, Poona 6.

CENTRAL WATER AND POWER RESEARCH
STATION

Kadakvasla South, Poona 4.

DECCAN COLLEGE POST-GRADUATE AND
RESEARCH INSTITUTE

Yeravda, Poona 6.

DECCAN EDUCATION SOCIETY

Fergusson College, Poona 4.

FILM INSTITUTE OF INDIA

Chiplunkar Road, Poona 4.

Nature of Body : Training in various branches of Film making. The objects of the Institute have been described in the article "Film Industry."

GOKHALE INSTITUTE OF POLITICS &
ECONOMICS

Poona 4.

HANDLOOM PAPER RESEARCH INSTITUTE

Agricultural College Compound, Poona 5.

HINGNE STREE-SHIKSHAN SAMSTHA

Karvenagar, Poona 4.

INDIA CHILD EVANGELISM FELLOWSHIP

2 Jubilee Road, Poona 1.

Also at 9, Bronson Garden Road, Kilpauk,
Madras 10.

INDIA FOUNDATION

595, Budhwar, Poona 2.

India Foundation is a public trust. Grant of scholarships and financial aid, gifts or loans, to students of outstanding merit in education, in India and abroad, irrespective of caste, creed, religion or language.

1. *For Post-Graduate Education abroad* : Scholarships, generally interest-free loans, refundable after completion of studies. The aid is further enlarged with the help of scholarships, assistantships, fellowships or grants obtained abroad for students of India Foundation from Universities, Professional Bodies, individual donors, Industries, and Institutions of higher learning.

2. *Outside Academic Field* : Aid or assistance for short-term is secured for professional men and women to acquire latest knowledge and technical know-how abroad, from institutions and sources interested in international promotion of education and understanding.

3. *Smaller Stipends* : For gifted needy students, of Rs. 10 per month for high school and Rs. 25 per month for college level.

President : Dr. N. B. Parulekar.

INDIAN BUDDHIST SOCIETY

207, Ghorpadebeth, Poona 2.

(Head Office : 7, Ferozeshah Road, New Delhi).

INDIAN INSTITUTE OF GERMAN STUDIES
GOETHE INSTITUTE, BRANCH POONA

14/3B, Boat Club Road, Poona-1.

LINGUISTIC SOCIETY OF INDIA

C/o Deccan College, Poona 6.

(Head Office at Ashutosh Building, Calcutta).

KARVE INSTITUTE OF SOCIAL SERVICE

Karvenagar, Poona 4.

LORD REAY MAHARASHTRA INDUSTRIAL
MUSEUM

Ghole Road, Poona 4.

**MAHARASHTRA ASSOCIATION FOR THE
CULTIVATION OF SCIENCE**
Poona 4.

**MAHARASHTRA STATE HORTICULTURAL
DEVELOPMENT ASSOCIATION**
Horticultural Section, College of Agriculture,
Poona 5.

MAHARASHTRA KARKHANDAR SANGH
82/5, Sadashiv Peth, P.B. No. 533, Poona 2.

MAHARASHTRA MUDRAN SHALA
1786, Sadashiv Peth, Poona 2.

**MAHARASHTRA STATE POULTRY
ASSOCIATION**
C/o Poultry Development Officer, Government of
Maharashtra, Poona 3.

MAHARASHTREEYA MANDAL
Tilak Road, Poona 2.

MAHARASHTRIYA KALOPASAK
Appa Balawant Chowk, Poona 2.

**MAHARATTA CHAMBER OF COMMERCE
AND INDUSTRIES**
Tilak Road, Post Box No. 525, Poona 9.

President : S. L. Kirloskar ; *Vice-Presidents* : C. V.
Joag, M. S. Parkhe, V. N. Somvanshi, V. S. Vaidya ;
Hon. Secretaries : A R. Bhat, V. M. Deval.

MAHILA KALA MANDIR
623/33, Sadashiv Peth, Deshmukh Wadi, Poona.

PROGRESSIVE EDUCATION SOCIETY
Shivajinagar, Poona 5.

POONA ANATH VIDYARTHI GRIHA
1786, Sadashiv, Poona 2 and Panchvati, Nasik.

POONA BLIND MEN'S ASSOCIATION
82, Rasta Peth, Poona 2.

POONA MERCHANTS' CHAMBER
185, Bhavani Peth, Poona 2.

POONA PAPER TRADERS' ASSOCIATION
495, Shanwar Peth, Poona 2.

**POONA PRESS OWNERS'
ASSOCIATION LTD.**

'Mudrak Bhavan,' 1078, Sadashiv, Poona 2.

POONA SEVA SADAN SOCIETY
613-614, Sadashiv Peth, Poona City.

**QUEEN MARY'S TECHNICAL SCHOOL FOR
DISABLED INDIAN SOLDIERS**
Park Road, Kirkee, Poona 7.

SERVANTS OF INDIA SOCIETY, POONA 4.

Its objects are to train national missionaries for the service of India and to promote, by all constitutional means, the interests of the Indian people. Its present strength is 14. It has its headquarters in Poona. The Society's work is primarily political but it also does tribal welfare work in the Mirzapur Dist. (U.P.), Madras, Andhra Pradesh, Orissa and in Malabar on a considerable scale.

SHIKSHANA PRASARAKA MANDALI
S. P. College Bldgs., Poona 9.

The main object of the Society is to give education at moderate cost, by starting schools, colleges, etc. and to encourage Marathi Literature.

The Mandali (Society) now conducts several institutions.

**SHRI SHIVAJI PREPARATORY MILITARY
SCHOOL**
Poona 5.

**STATIONERY, CUTLERY AND GENERAL
MERCHANTS' ASSOCIATION**
794, Sadashiv Peth, Poona 2.

**TILAK AYURVEDA MAHAVIDYALAYA,
POONA**
583(2), Rasta Peth,
Poona 2.

VAIDIKA SAMSODHANA MANDALA
Tilak Vidyapeeth Nagar, Poona 9.

A literary institution for the study, research and publication of Vedic and Iranian literature.

**VIRUS RESEARCH CENTRE (INDIAN COUNCIL
OF MEDICAL RESEARCH)**
20A, Wellesley Road, Poona 1.

**YOGIC RESEARCH, TRAINING AND
THERAPEUTIC INSTITUTE**
KAIVAL-YADHAMA S.M.Y.M. SAMITI,
Lonavla (C. Rly.).

DECCAN MANUFACTURERS' ASSOCIATION
"Rose Cottage", opp. Mal Bungalow, Sangli-
Madhavnagar Road, Sangli.

**CHAMBER OF COMMERCE,
SANGLI**

**MADHAVNAGAR POWERLOOMS OWNERS'
ASSOCIATION**
292, Main Road, Madhavnagar.

**THE SANGLI INDUSTRIAL ESTATE
CO-OPERATIVE SOCIETY LTD.**
Madhavnagar Road, Sangli.

MIRAJ MEDICAL CENTRE
Miraj

**SPECIES AND OILSEEDS EXCHANGE LTD.,
WAKHAR BAGH, P. BAG No. 105, SANGLI**

The only Exchange in India recognised for forward trading in Turmeric and the second one for forward trading in Groundnuts-in-Shell.

**WALCHAND COLLEGE OF ENGINEERING,
SANGLI**

WILLINGDON COLLEGE, SANGLI
Y.M.M.E. SOCIETY, SANGLI

THE SIR WILLIAM WANLESS CHEST HOSPITAL
Wanless Wadi

RICHARDSON LEPROSY HOSPITAL
Miraj Mission Hospital P.O., Miraj.

DHARMAKOSHA MANDAL
P.O. Wai.

To conduct research in ancient Indian religion, philosophy and culture and edit and publish encyclopaedic works such as Dharmakosha, Mimamsakosha, etc.

**MAHARASHTRA STATE BOARD FOR
LITERATURE AND CULTURE**

Vishwakosha Unit Office, C/o Prajna Pathshala,
Wai, P.O.

RAYAT SHIKSHAN SANSTHA SATARA
(Educational Society of Masses)

Regional Offices : Satara, Sangli, Poona and Ahmed-
nagar.

SATARA EDUCATION SOCIETY, SATARA

SHOLAPUR CHAMBER OF COMMERCE
Siddeshwar Market, W. Mangalwar Peth, Sholapur 2.

TEXTILE ASSOCIATION (INDIA) LTD.
The Lakshmi Cotton Mfg. Co., Ltd.
Sholapur.

**JAMNALAL BAJAJ CENTRAL RESEARCH
INSTITUTE FOR VILLAGE INDUSTRIES**
Maganwadi, Wardha.

Estd. 1955. *Aims & Objects* : Research and investi-
gation for the improvement of the tools and techniques
of village industries.

MYSORE

ALL INDIA INSTITUTE OF MENTAL HEALTH
P. Bag No. 15, Bangalore 27.

Director : Dr. N. C. Surya ; *Adm. Officer* : K. S. Panikkar.

CENTRAL MACHINE TOOL INSTITUTE
Tumkur Road, Bangalore 22.

This Institute is established by the Government of
India with technical and financial collaboration from the
Government of Czechoslovakia.

Object : To serve the machine tool industry in the
country, by undertaking research and development in
various fields related to machine tools. In general, this
includes such aspects as research in machine tool engineer-
ing and technology, design of new machine tools and
improvements on existing designs. The Institute provides
consultation facilities to industries and personnel engaged
in machine tool production and undertakes fabrication
and testing of prototypes of the new designs developed
in the Institute, which are later on licensed to industries
for regular manufacture.

The activities of the Institute are organised as below :

Design : Design of machine tools, accessories, hydraulic
and electrical elements and systems, calculation methods,
redesign of machine tools. *Research & Testing of Machine
Tools* : Testing of machine tools, accessories and elements.
Research on the basic properties of machine tools and
its elements, hydraulic, electrical and electronic systems.
Research in Machining & Technology : Studies in machin-
ability, tool research and research in production technol-
ogy. *Standardisation* : Providing assistance for formula-
tion of national standards on machine tools. *Electronics
Laboratory* : Development of electronic control systems
for machine tools. *Metrology Laboratory* : Precision
measurements and calibration facilities, development of
measuring techniques for the machine tool industry.
Prototype Workshop : Fabrication of prototypes and
testing fixtures. *Documentation & Information* : Documen-
tation and dissemination of information pertaining to
machine tools. *Director* : R. K. Gejji.

INDIAN INSTITUTE OF SCIENCE
Bangalore 12.

The departments of the Institute provide facilities for
post-graduate research in (SCIENCE FACULTY) In-
organic and Physical Chemistry, Organic Chemistry,
Biochemistry, Physics, Applied Mathematics, Pharma-
cology, Fermentation Technology and Industrial Manage-
ment, inclusive of Economics and Industrial Psychology.

There is provision for post-graduate research and also
for post-graduate instruction (M.E.) in the departments
of (ENGINEERING FACULTY) Aeronautical Engineer-
ing, Internal Combustion Engineering, Metallurgy,
Electrical Communication Engineering, Electrical En-
gineering, Mechanical Engineering, Civil and Hydraulic
Engineering, High Voltage Engineering and Chemical

Engineering and also for instruction in French and Ger-
man. The departments are well equipped and have ade-
quate staff.

Founder : J. N. Tata, *President of the Court* : J. R. D.
Tata, *Chairman of the Council*, R. Choksi, *Director* : Satish
Dhawan, *Registrar* : S. S. Prabhu.

**LEPROSY RELIEF & RESEARCH INSTITUTE
OF AYURVEDA**

Arunodaya, Kengeri Post, Bangalore South.

**METER MANUFACTURES' ASSOCIATION OF
INDIA**

Post Bag 6, Bangalore 26.

MYSORE CHAMBER OF COMMERCE & INDUSTRY
Kempegowda Road, Bangalore 9.

President : M. Krishna Murthy ; *Secretary* : G. N. Krishna
Murthy.

**NATIONAL TUBERCULOSIS INSTITUTE OF
INDIA**

'Avalon', Bellary Road, Bangalore-3.

The Institute is carrying out applied research in tuber-
culosis Epidemiology, Bacteriology, Sociology, and
Control Operations in order to evolve a streamlined pro-
gramme of tuberculosis control on community-wide basis.
It accepts for training tuberculosis control teams (each
comprising a Medical Officer, a Treatment Organizer,
a Laboratory Technician, an X-ray Technician, a Statis-
tical Assistant and a BCG Team Leader) from State
Governments for 13 weeks' national training courses.
Besides, it conducts every year an international training
course for key programme organizers from other countries
and seminar for senior health administrators and profes-
sors of tuberculosis, etc.

Other functions : It provides practical help and guidance
to the Southern States of Mysore, Tamil Nadu, Andhra Pra-
desh and Kerala in programme organization ; orientation to
undergraduate and post-graduate medical students and
technical advice to the Central and State Governments.

Director : Dr. D. R. Nagpaul.

REGIONAL INSTITUTE OF ENGLISH, SOUTH INDIA
6A, Cunningham Road, Bangalore.

Objects : To offer intensive training to key personnel
in the field of English language teaching in these States.
The Institute gives training in the teaching of English
in the first six years of school to graduate teachers and
Deputy Inspectors of Schools. The trainees are selected
and deputed by the respective State Governments.

Other functions : The Institute provides teaching
materials for English from Stds. III—VII for prescrip-
tion by the southern States.

Director : M. Muhammad Ghani.

OTHER TRADE AND COMMERCIAL ASSOCIATIONS

- All Mysore Hotels' Association, Sivaji Bldgs., Mysore Road, Bangalore 2.
- All Mysore Small Scale Industries Association, Prasad Mansion, Main Road, Gandhinagar, Bangalore 9.
- Bangalore Commercial Association, 45, Commercial Street, Bangalore-1.
- Bangalore Gold Thread Merchants' Association, 49, Jamma Masjid Road, Bangalore 2.
- Bangalore Petroleum Dealers' Association, 18, St. Mark's Road, Bangalore 1.
- Bangalore Trades Association, 21A, Mahatma Gandhi Road, Bangalore 1.
- Bangalore Tract & Book Society, 16, St. Mark's Road, Bangalore.
- Bangalore Tyre Dealers' Syndicate, Ramakrishna Building, 2nd Floor, Narasimharaja Road, Bangalore 2.
- Bangalore Wholesale Piecegoods Merchants' Assn., Rukmini Bldg., Chickpet, Bangalore 2.
- Bangalore Wine Merchants' Association, 111, Bridge Road, Bangalore-1.
- Coconut Merchants' Association, 33, Sithu Rao Street, Bangalore 2.
- Grain Merchants' Association, 2, Hardinge Road, Bangalore 2.
- Jewellers' Association, Nagarathpeth, Bangalore 2.
- Mysore Raw Silk Merchants' Association, No. 26, Resham Mahal, Kempegowda Extn., Bangalore 9.
- Mysore Silk Manufacturers (Powerlooms) Association, 39, Jammu Masjid Road, Bangalore 2.
- Mysore Silk Throwing Factories Association, S. S. K. Sangha Buildings, Kasi Visweswara, Temple St., Bangalore 2.
- Mysore State Radio Merchants' Association, 2-F, Mahatma Gandhi Road, Bangalore 1.
- Mysore Small Scale Industries Co-operative Society Ltd., Prasad Mansion, Main Road, Gandhinagar, Bangalore 9.
- Mysore State Hides & Skins Merchants' & Tanners Association, 74, Commercial Street, Bangalore 1.
- Stationery, Cutlery & General Merchants' Association, C/o C. R. & Bros., 201-202, Avenue Road, Bangalore 2.
- Textile Association (India) Regd., Mysore Branch, C/o S. K. S. J. Technological Institute, Bangalore 1.
- Electrical Merchants' Association, Shankara Bldgs. Chickpet, Bangalore 2.
- Handloom Cloth Merchants' Assn., Marwadi Temple Lane, Chickpet, Bangalore 2.
- Licensed Electrical Contractors' Assn. of Mysore, 528, Avenue Road, Bangalore 2.
- Mysore Art Silk Yarn Merchants' Assn., 32, Jumma Masjid Road, Bangalore 2.
- Mysore Film Chamber of Commerce, Movieland Bldgs., 6th Cross, Gandhinagar, Bangalore 9.
- Mysore Metal Merchants' Association, Post Box No. 556, Bangalore 2.
- Mysore Oodabathi Mfrs.' Association, Mysore Chamber of Commerce Bldgs., Kempegowda Road, Bangalore 9.
- Mysore Prov. Silk Handloom Weavers Co-op. Society Ltd., Jumma Masjid Road, Bangalore 2.
- Mysore Silk Association, Asiatic Bldgs., Gandhinagar, Bangalore 9.
- Mysore Silk Cloth Merchants' Assn., No. 6, Shivakripa Bldg., Chowdeswari Temple St., Bangalore 2.

OTHER CULTURAL, RELIGIOUS, ETC. ASSOCIATIONS

- All India Anglo Indian Association, 11, Stephen Road, Bangalore 5.
- All India Dental Association, Dental College, Fort, Bangalore 2.
- Automobile Association of South India, 18, St. Mark's Road, Bangalore 1.
- Bible Society of India and Ceylon, A/1, M. Gandhi Road, Bangalore 1.
- Board of Control for Cricket in India, No. 34, 16th Cross Road, Malleswaram, Bangalore 3.
- Bowring Institute, 19, St. Mark's Road, Bangalore 1.
- Rotary Club of Bangalore, 36, Residency Road, Bangalore.
- Commonwealth Institute of Biological Control, P. Box 1403, Bangalore 6.
- Central Leprosarium, Magadi Road, Bangalore 2.
- Indian Hockey Federation, 16/3, Infantry Road, Bangalore.
- Indian Institute of Public Administration, Vidhana Soudha, Ground Floor, Bangalore 1.
- Family Planning Associations, 44A, Cavalry Road, Bangalore 1.
- The Indian Institute of World Culture, 6, Sri B. P. Wadia Road, Basavangudi, Bangalore 4.
- Indian Red Cross Society, 51, Govindappa Road, Basavangudi, Bangalore 4.
- Institution of Engineers (India), Mysore Engineers Assn. Bldg., Bangalore 1.
- Mysore Automobile Parts and Allied Merchants' Association No. 17, 2nd Floor, Ramkrishna Bldg., Narasimharaja Road, Bangalore 2.
- Mysore Medical Association, Fort, Bangalore-2.
- Mysore Geologists' Association, 243, Fifth Main Road, Chamarajpet, Bangalore 1.
- Mysore Horticultural Society, Lalbagh, Bangalore 2.
- Mysore Serum Institute, Hebbal, Bangalore 6.
- Oriental Research Institute, Mysore.
- Seva Sadan, XIV Cross Road, Malleswara, Bangalore 3.
- Servants of India Society, Basavanagudi, Bangalore.
- Sangeetha Kalabhivardhini Sabha (Redg.), 1670, Hosakeri, Krishnaraj Mohalla, Mysore.
- Shree Rama Bhajana Sabha, East Park Road, Malleswaram, Bangalore 3.
- Shree Ramaseva Mandal, 189, 4th Main Road, Chamarajpet, Y.M.C.A., Cernofaph Road, Bangalore 2.
- Federation of Indian Photography, 50, Sri Rama Mandir Road, Bangalore 4.
- Gokhale Institute of Public Affairs, Narasimharaja Colony, Basavangudi, Bangalore 4.
- Home Management, 1st Main V Block, K. West Extn., Bangalore 20.
- Indian Academy of Sciences, Hebbal P.O., Bangalore 6.
- Indian Dairy Science Association, Hosur Road, Bangalore.
- Indo Soviet Cultural Society, 28, 1st Main, V Block, Kumara Park W. Extn., Bangalore 20.
- Institute of Secretaries, 28, 1st Main, V Block, K. W. Extension, Bangalore 20.
- Institution of Telecommunication Engineers, C/o Indian Telephone Industries Ltd., Bangalore 16.
- Kannada Sahitya Parishad, Hardinge Road, Chamarajpet, Bangalore 18.
- Shri Krishnarajendra Silver Jubilee Technological Institute, Krishnarajendra Circle, Bangalore 1.

Mysore State Adult Education Council, 1132/2, Krishna-murthipuram, Mysore.

Mysore State Badminton Assocn., 64, XV-A, Cross Road, Malleswaram, Bangalore 3.

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SOUTH INDIAN ATHLETIC ASSOCIATION LIMITED

Moore Pavilion, People's Park, Madras 3.

SOUTH INDIAN FILM CHAMBER OF COMMERCE

122, Mount Road, Madras 6.

SOUTH INDIA GLASS MANUFACTURERS' ASSOCIATIONC/o South India Glass and Enamel Works Ltd.,
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SOUTH TRAVANCORE CHAMBER OF COMMERCE

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135, Anna Pillai Street, G.T., Madras 1.

SOUTHERN INDIA CHAMBER OF COMMERCE

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*Secretary : P. S. Subramaniam.***SOUTHERN INDIA COTTON WASTE MERCHANTS' & EXPORTERS' ASSOCIATION**

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Post Box No. 211, Coimbatore.

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15, Ritchie Street, Mount Road, Madras 2.

THE SOUTHERN INDIA METAL DISTRIBUTORS' ASSOCIATION

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221, Govindappa Naick Street, Madras-1.

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16, Sydenham's Road, Periamet, Madras 3.

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SRI RAMAKRISHNA MATH

(Publication Department)

11, Sri Ramakrishna Math Road, Mylapore, Madras 4.

SRI RAMKRISHNA MISSION VIDYALAYA

Sri Ramkrishna Vidyalaya P.O., Dist. Coimbatore.

Started in 1930, it consists of about a dozen institutions, of which the Rural Institute and the Teachers' College are most important. The Govt. of India have proposed to give it a "deemed" University status under Section 3 of the University Grants Commission Act.

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'Brodie Castle', Greenaways Road, Madras-28.

TAMIL NADU TAMIL DEVELOPMENT & RESEARCH COUNCIL
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THE TEXTILE ASSOCIATION (INDIA) SOUTH INDIA BRANCH
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THEOSOPHICAL SOCIETY
International Headquarters : Adyar, Madras 20.

THE TIRUPUR COTTON MERCHANTS ASSOCIATION
Tirupur (Coimbatore District).

TOBACCO EXPORT PROMOTION COUNCIL
123, Mount Road, Madras 6.

THE TRICHINOPOLY DISTRICT CHAMBER OF COMMERCE
Theradikadai Street, Tiruchirappalli 2.

TUTICORIN CHAMBER OF COMMERCE
South Beach Road, Tuticorin.

THE TUTICORIN-CEYLON CURRENT EXPORTERS' & IMPORTERS' CHAMBER
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U.S. EDUCATIONAL FOUNDATION IN INDIA
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YOUNG WOMEN'S CHRISTIAN ASSOCIATION
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UTTAR PRADESH

ACADEMY OF ZOOLOGY
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Bari Kothi, Belanganj, Agra.

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G. G. Industries Post Office, Agra.

AGRA SHOE MANUFACTURERS' ASSOCIATION
1244, Pili Kothi, Shahganj, Agra.

ALIGARH LOCK MANUFACTURERS & TRADERS' ASSOCIATION
Aligarh.

ALL INDIA CRIME PREVENTION SOCIETY
Behari Niwas, Kanpur and Balaganj, Lucknow.

ALL INDIA FEDERATION OF EDUCATIONAL ASSOCIATIONS
Jha-Seshadri-Khattry Bhawan, Post Box 52, Kanpur.

ALL INDIA KASHIRAJ TRUST
Fort Ramnagar, Varanasi.
Objects : Among others, advancement and propagation of the Sanskrit language, Sanskrit learning and Indology.

The Trust maintains a South Indian Pilgrims Information Bureau at Varanasi to help the pilgrims from South India.

ALL-INDIA NATURE CURE ASSOCIATION
52, Gwynne Road, Lucknow.

ALL INDIA SEVA SAMITI
Seva Samiti Buildings,
Seva Samiti Road, Allahabad 3.

AMERICAN ACADEMY OF BANARES
Rewa Palace, B2/3 Rewa Ghat, Varanasi.

ARCHAEOLOGICAL MUSEUM
Dampier Park, Mathura.

BHARAT KALA BHAVAN
(Museum of Indian Art and Archaeology).
Banaras Hindu University, Banaras 5.

THE BHARAT SCOUTS AND GUIDES UTTAR PRADESH
17, Katra Road, Allahabad.

BHARATA GANITA PARISAD
(FORMERLY BENARAS MATHEMATICAL SOCIETY)
Mathematics Dept., Lucknow University, Lucknow.

BIRBAL SAHNI INSTITUTE OF
PALAEOBOTANY
53, University Road, Lucknow (U.P.).

THE CHAMBER OF COMMERCE
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THE CHAMBER OF COMMERCE
Hapur, Dist. Meerut.

COTTAGE INDUSTRIES DEVELOPMENT
INSTITUTE
Tilpurwa, Hussainganj, Lucknow.
Specialists in Chikan Art Industry.

DEFENCE INSTITUTE OF WORK STUDY
Landour Cantt., Mussoorie.

Functions: (a) to train defence personnel in Work Study techniques and other managerial duties; (b) to offer, on request, assistance to Defence Establishments in the field of practical applications of Work Study, and (c) to carry out research for further improvement in Work Study techniques, particularly in the context of conditions obtaining in this country.

Director : Brig. V. Dhruva.

THE DIVINE LIFE SOCIETY
P.O. Sivanandanagar, Dist. Tehri-Garhwal, U.P.

Founded by H. H. Swami Sivananda in 1936. The main objective is the dissemination of spiritual knowledge and spiritual awakening of modern mankind, and revival of India's ancient spiritual and moral ideals as applicable to man of the present age. Propagates Yoga and Vedanta, promotes universal love, the unity of religions, the ideal of brotherhood and the spirit of selfless service through medical work and educational help. Universal in its outlook, its activities include missionary and philanthropic work irrespective of sex, sect, caste, creed, country or colour. The Society has branches all over the world.

President : H. H. Swami Chidananda Saraswati.

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INDIA
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GANGANATHA JHA RESEARCH INSTITUTE
Motilal Nehru Park, Allahabad.

GURUKUL KANGRI VISHWAVIDYALAYA
P.O. Gurukul Kangri (Dt. Saharanpur).

H. B. TECHNOLOGICAL INSTITUTE
Company Gardens, Kanpur.

HIDE MERCHANTS' ASSOCIATION
Farrashkhana, Kanpur.

HIND KUSHT NIVARAN SANGH
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C/o Director of Medical and Health Services, U.P.,
Lucknow.

INDIA VILLAGE SERVICE
(Sattal, P.O. Bhowali, Dist. Naini Tal, U.P.).

INDIAN CERAMIC SOCIETY
Banaras Hindu University, Banaras 5.

INDIAN INSTITUTE OF TECHNOLOGY
I.I.T. P.O., Kanpur.

INDIAN POLITICAL SCIENCE ASSOCIATION
Muslim University, Aligarh.

INSTITUTE OF OPHTHALMOLOGY
Gandhi Eye Hospital, Aligarh.

INSTITUTE OF ORIENTAL PHILOSOPHY
Vrindaban (Dist. Mathura).

INTERNATIONAL HUMAN REFORM SOCIETY
Manavata Bhawan, 1, Gurudwara Road, Lucknow.

J. K. INSTITUTE OF SOCIOLOGY, ECOLOGY AND
HUMAN RELATIONS
University of Lucknow, Lucknow.

KASHI VIDYAPITH
Varanasi.

MAHILA ASHRAM
(Home for women in distress run by Municipal Corpn.)
Motinagar, Lucknow.

MERCHANTS' CHAMBER OF U.P.
14/38, Civil Lines, Kanpur.

NATIONAL ACADEMY OF SCIENCES, INDIA
(Lajpat Rai Road, Allahabad 2.)

NATIONAL CHAMBER OF INDUSTRIES AND
COMMERCE
(G. G. Industries Post Office, Agra.)

NATURE CURE COUNCIL OF MEDICAL
RESEARCH
52-57, Gwynne Road, Lucknow.

NORTH INDIA CHRISTIAN LITERATURE
SOCIETY
18, Clive Road, Allahabad.

NUMISMATIC SOCIETY OF INDIA
P.O. Banaras Hindu University, Varanasi 5.

RAMAKRISHNA MISSION SEVASHRAM
Vivekananda Puri, Lucknow 7.

Has a charitable dispensary with X-Ray, Dentistry, Physiotherapy and T.B. Clinic. Treated 2,85,414 patients during 1966-67 free of charge, without any distinction of caste, creed or colour. Conducts regular religious and philosophical discourses daily. Has a library and reading room with over 9,500 volumes and about 30 periodicals and 8 dailies.

SARVA SEVA SANGH
Rajghat, Varanasi.

The Object of the Sarva Seva Sangh is to build a stateless and non-exploitative Society based on truth and non-violence. Its basic policy is to preserve moral values in society and to work for the all-round development of human personality. The Sangh strives to eradicate distinctions of high and low based on caste, race, colour, sex etc. to abolish not only class-conflict, but classes themselves and promote mutual cooperation and remove the economic disparities in agriculture, industry and

other fields, through Khadi and decentralised economy. The Sangh seeks to stimulate the virtues of peace, harmony and compassion and make use of scientific and spiritual means in building up the self-reliant strength of the people and realisation of a non-violent revolution.

Shanti Sena Mandal is doing peace work in the country in general and in border areas in particular on behalf of the Sangh.

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Shahjahanpur.

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University of Allahabad, 2-D, Beli Road,
Allahabad.

THE SUGAR TECHNOLOGISTS' ASSOCIATION OF INDIA
Kalyanpur, Kanpur.

THE TANNERS' FEDERATION OF INDIA
14/69, Civil Lines, Kanpur.

TEXTILE ASSOCIATION (INDIA)
(U.P. Branch)
14/1, Civil Lines, Kanpur.

THEOSOPHICAL SOCIETY
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(Kamachha, Varanasi 1.)

TRADERS CHAMBER OF UTTAR PRADESH
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THE U.P. AUTOMOBILE ASSOCIATION
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5, Industrial Estate, Kanpur.

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UPPER INDIA CHAMBER OF COMMERCE
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President : A. H. West ; *Vice-President* : Y. S. Tayal ;
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Teaching-cum-affiliating. Has the richest collection of Sanskrit Manuscripts.

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THE VIJNANA PARISHAD
The Vijnana Parishad Bhawan, Thornhill Road, Muir College Buildings, Allahabad 2.

Scientific—Hindi Science Academy of India for Propagation of Science in Hindi.

WESTERN U.P. CHAMBER OF COMMERCE
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YOGA-VEDANTA FOREST ACADEMY
Divine Life Society, P.O. Sivananda Nagar (Dt. Tehri Garhwal).

The Yoga-Vedanta Forest Academy is an affiliated institution to the Divine Life Society. The Yoga-Vedanta Forest Academy constitutes the instructional and the research wing of the mother institution and is co-existent and co-extensive with the Society's Headquarters at Sivanandanagar near Rishikesh. The objective and function of the Academy are practical training in Yoga, instruction on spiritual *Sadhanas* and *Yoga-abhyasa*, regular publication of books on Yoga and Vedanta, imparting knowledge of scriptures, research work into aspects of *Yoga* and arranging of periodical intensive courses of the Yogas in synthesis. The Academy has been functioning since 1948.

WEST BENGAL

ALL BENGAL PHYSICAL CULTURE ASSOCIATION
5, Krishna Bihari Sen Street, Calcutta 7.

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15, Bankim Chatterjee Street, Calcutta 12.

ALL BENGAL WOMEN'S UNION
89, Elliot Road, Calcutta 16.

ALL-INDIA ASTROLOGICAL AND ASTRONOMICAL SOCIETY
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ALL INDIA INVESTORS' ASSOCIATION
7, Lyons Range, Calcutta 1.

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P-11, Mission Row Extension, Calcutta 1.

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90-A, Bokulbagan Road, Calcutta 25.

ALL-INDIA MARWARI FEDERATION
152-C, Mahatma Gandhi Road, Calcutta 7.

ALL INDIA RADIO MERCHANTS' ASSOCIATION
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ALL INDIA SHEET GLASS MANUFACTURERS
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Dunlop House, 57-B, Free School Street, Calcutta 16.

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ASWINI KUMAR INSTITUTE
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49/1, Gariahat Road, Calcutta 19.

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BANI MANDIR WOMEN'S EDUCATION SOCIETY
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ASSOCIATION
20, Strand Road, Calcutta.

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219, Bepin Behari Ganguli Street, Calcutta 12.

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93/1, Upper Circular Road, Calcutta 9.
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- THE BUCKET MANUFACTURERS' ASSOCIATION OF INDIA**
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- BUDDHIST SOCIETY OF INDIA & BUDDHIST MISSION OF INDIA**
31/1, Baghbazar St., Calcutta 3.
- BUILDERS' ASSOCIATION OF INDIA (Eastern Centre)**
8 Pran Krishna Mukherjee Road, Calcutta 2.
- BUILDERS' HARDWARE INDUSTRIES ASSOCIATION OF INDIA**
India Exchange, 7th Floor, Calcutta 1.
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62, Bowbazar Street, Calcutta 12.
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6, Netaji Subhas Road, Calcutta 1.
- CALCUTTA BLIND SCHOOL**
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- CALCUTTA DEAF & DUMB SCHOOL**
(Trg. College for the Teachers of the Deaf)
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Forests, S. Suryanarayana Raju ; Information and Public Relations, A. Vasudeva Rao ; Civil Supplies and Rationing, A. Sanjiva Reddy ; Marketing, State Warehousing Corporation and Agro-industries Corporation, Ramchandra Rao Kalyani ; Medium Irrigation, Drainage and Flood Control, R. Narapa Reddy ; Women's Welfare, Tourism, Mrs. Roda Mistry ; Small-Scale Industries, Small Scale Industrial Development Corporation and Industrial Co-operatives, G. C. Venkanna ; Minor Irrigation, V. Purushotham Reddy ; Housing Accommodation Control, Sports Council, Games and Stadium, Rajanarasimha ; Export Promotion, Mines and Mining Corporation, P. Ankineedu Prasada Rao ; Fisheries and Ports, S. R. A. S. Appalla Naidu.

Secretariat

Chief Secretary, M. T. Raju, I.C.S. ; Secretary, Revenue C. R. Krishna Swami, I.A.S. ; Special Secretary, Home, A. Krishna Swamy, I.A.S. ; Secretary, Finance, N. Rameshan, I.A.S. ; Secretary, Law, J. Veera Swamy ; Secretary, P.W.D., B. C. Gangopadhyaya, I.A.S. ; Secretary, Planning & Panchayati Raj, B. P. R. Vithal, I.A.S. ; Secretary, Education, S. R. Ramamurthy, I.A.S. ; Secretary, Industries, M. A. Abbasi, I.A.S. ; Special Secretary, Food & Agriculture, S. A. Khadar.

Heads of Departments

Director of Agriculture, Dr. T. V. Reddy; *Chief Conservator of Forests*, P. S. Rao; *Director, Bureau of Economics & Statistics*, D. Rangaramanujam; *Director of Public Instruction*, B. Pratap Reddy; *Director of Industries & Commerce*, Abid Hussain, I.A.S.; *Inspector General of Police*, A. Jayaram; *Director of Medical & Health Services*, Dr. I. Bhushan Rao; *Commissioner of Police*, B. N. Kalyan Rao; *Commissioner, Hindu Religious & Charitable Endowments*, K. Vasudeva Rao, I.A.S.; *Commissioner for Labour*, K. B. Lal, I.A.S.; *I. G. of Prisons*, C. B. Patil, Registrar of Co-operative Societies, E. V. Rami Reddy, I.A.S.; *Director of Janasambandha Shakha*, B. R. Rao, I.A.S.; *Director of Fisheries*, M. B. Shabbir; *Director of Employment & Training*, G. D. Quraishi, I.A.S.; *Chairman, Public Service Commission*, H. Ramalinga Reddy.

HIGH COURT

Hyderabad.

Chief Justice, Vacant; *Judges*, N. Kumarayya, H. Anantanarayana Ayyar, K. V. L. Narasimham, Shar-

fuddin Ahmed, E. Venkatesam, Gopal Rao Ekbote, Moham-med Mirza, M. Krishna Rao, S. Obul Reddi, A. Sambasiva Rao, V. K. Vaidya, C. Kondaiah, A. Kuppuswami, O. Chinnappa Reddy, V. Parthasarathy, K. Madhava Reddy, K. Ramachandra Rao, A. D. V. Reddy (Addl.), Y. Venkateswara Rao (Addl.), *Advocate-General*, B. V. Subramanyam; *Registrar*, M. Ramachandra Raju.

SOUTH CENTRAL RAILWAY

Himmatnagar, Secunderabad 25.

General Manager, N. S. Swaminathan; *Senior Dy. General Manager*, Vacant; *Chief Operating Superintendent*, M. A. Uthappa; *Chief Commercial Superintendent*, K. N. Chennabasappa; *Chief Engineer*, N. Hazra; *Chief Engineer (Construction)*, M. R. Reddy; *F.A. & C.A.O.*, M. A. Ashruff; *Chief Mechanical Engineer*, H. R. Chopra; *Chief Personnel Officer*, A. S. Sundara Rajan; *Chief Signal and Telecommunication Engineer*, A. Laxminarayanan; *Chief Electrical Engineer*, V. Seetharaman; *Chief Security Officer*, L. J. Victor; *Public Relations Officer*, H. K. Bakhru.

ASSAM

Shillong

ADMINISTRATIVE PERSONNEL

Governor

B. K. NEHRU.

Council of Ministers

Chief Minister, Appointment, Home, Political, General Administration, Secretariat Administration, Information & Public Relations, Minority Affairs, Transport, Municipal Administration, Public Works (R & E), Planning and Statistics, General Co-ordination of all Department and matters not allotted to any Minister, B. P. Chaliha.

Finance, Labour, K. P. Tripathi.

Health, Tribal Affairs and Welfare of Backward Classes, Soil Conservation, C. S. Teron.

Education, J. B. Hagjer.

Revenue, Forests, Flood Control & Irrigation, Parliamentary Affairs, M. M. Choudhuri.

Supply, Trade & Commerce, Excise, R. C. Barua.

Agriculture, Veterinary, Live-stock, Panchayats Community Development and Co-operation, L. P. Goswami.

Jails, Khadi & Village Industries, Sericulture & Weaving and Fisheries, M. N. Hazarika.

Law, Political Sufferers, Social Welfare, Abdul Matlib Majumdar.

Industries, Mines & Minerals, Biswadev Sharma.

Minister of State

Education, Wakf Property, Syed Ahmed Ali; *Social Welfare, Relief and Rehabilitation*, Shrimati P. K. Gohain; *Transport and Parliamentary Affairs*, P. K. Choudhuri; *Community Development and Panchayats*, D. N. Hazarika; *Revenue, Forests*, R. Basumatary; *Public Works (Roads & Buildings)*, Altaf Hussain Majumdar.

Deputy Ministers

Tribal Affairs and Welfare of Backward Classes, S. S. Terang; *Agriculture*, Dandi Ram Dutta; *Labour*, Chatral-Gopal Karmarkar.

Secretariat

Chief Secretary, A. N. Kidwai, I.C.S.; *Addl. Chief Secretary and Dev. Commissioner & Secretary, Planning*, N. K. Rustomji, I.C.S.; *Secretary, Finance*, G. C. Phukan; *Commissioner, Hills Division*, N. K. Rustomji, I.C.S.; *Secretary, Supply & Transport*, B. W. Roy, I.A.S.; *Secretary, Development (Panchayat and C.D.)*, S. M. Rahman, I.A.S.; *Secretary, Revenue and Forests*, T. Krishnamurthy; *Secretary, Industries*, M. Ahmed; I.A.S.; *Jt. Secretary, Home*, T. S. Gill, I.A.S.; *Secretary, Education*, R. Z. Ahmed, I.A.S.; *Secretary, Labour, Excise, etc.*, S. J. Das, I.A.S.; *Secretary, L.S.G., Town and Country Planning, Medical*, S. J. Das; *Secretary, Agriculture, Veterinary, Pisciculture, Soil Conservation and Co-operation*, S. Majumdar, I.A.S.; *Secretary, Law*, Biseswar Sarma; *Secretary (Ex-Officio), Tribal Areas*, B. Bhuyan, I.A.S.; *Secretary, P.W.D. (Roads and Buildings Wing)*, G. C. Momin; *Secretary, P.W.D. (Flood Control and Irrigation Wing)*, A. Rashid.

Heads of Departments

Commissioner of Plains Divisions, B. S. Saras, I.A.S.; *Commissioner of Agricultural Production*, D. Das, I.A.S.; *Director of Agriculture*, S. Mazumdar, I.A.S.; *Director of Industries*, A. D. Adhikari; *Director of Public Instruction*, G. C. S. Barooah; *Director of Health Services and Inspector-General of Prisons*, D. Phukan; *Director of Economics and Statistics*, Vacant; *Director of Information and Public Relations*, D. C. Bhuyan, M.A., B.L.; *Director of Technical Edn.*, H. N. Barua; *Director of Inland & Water Transport*, K. Gogoi; *Registrar, Co-operative Societies & Chief Conservator of Forests*, P. Barua; *Inspector-General of Police*, Lala B. K. Dey.

High Court

Gauhati

Chief Justice, S. K. Dutta; *Judges*, P. K. Goswami, M. C. Pathak, K. C. Sen (Ad-hoc); *Registrar*, B. C. Dutta; *Advocates-General*, B. C. Barua (Assam), Brig. D. M. Sen (Nagaland).

North-East Frontier Agency

Shillong

Adviser to the Governor, P. N. Luthra; *Security Commissioner*, K. A. A. Raja; *Development Commissioner*,

S. M. Krishnatry ; *Inspector-General, Assam Rifles*, Maj.-General V. B. Tuli.

NORTH-EAST FRONTIER RAILWAY

Maligaon, Gauhati 11.

General Manager, M. T. Lee ; *Dy. General Manager & Chief Vigilance Officer*, K. N. Nair ; *Dy. General Manager (General)*, R. N. Bose ; *Dy. General Manager, Katihar*,

Tej Ram ; *Chief Personnel Officer*, D. G. Digvi ; *Chief Engineer*, M. I. Chhaya ; *Chief Operating Superintendent*, H. F. Pinto ; *Chief Mechanical Engineer*, D. K. Subarwal ; *Financial Adviser & Chief Accounts Officer*, G. M. Gidvani ; *Chief Electrical Engineer*, S. S. Kochak ; *Chief Signal & Telecommunication Engineer*, V. U. Shenai ; *Chief Commercial Superintendent*, H. P. Verma ; *Chief Security Officer*, P. C. Barbora.

BIHAR*

Patna

ADMINISTRATIVE PERSONNEL

Governor

DHARMA VIRA

Advisers : P. K. J. Menon, T. P. Singh.

Secretariat

Chief Secretary, Sachchidanand Sinha, I.A.S. ; *Addl. Chief Secretary*, P. P. Agarwal, I.C.S. ; *Secretary, Political (Special Sec.)*, S. C. Mishra, I.A.S. ; *Secretary, Political (General)*, R. T. Sinha, I.A.S. ; *Secretary, Political (Police and Appointment)*, V. Narayan, I.A.S. ; *Secretary, Finance*, P. S. Appu, I.A.S. ; *Additional Secretary, Finance*, N. Nagmani, I.A.S. ; *Secretary, Revenue*, J. P. Shrivatsava, I.A.S. ; *Secretary, Labour*, K. A. Ramasubramaniam, I.A.S. ; *Secretary, P.W.D.*, N. Prasad, I.A.S. ; *Secretary, Health*, R. P. Khanna, I.A.S. ; *Development Commissioner*, B. N. Sinha, I.A.S. ; *Agricultural Production Commissioner*, H. N. Thakur, I.A.S. ; *Food Commissioner*, R. S. Mandal, I.A.S. ; *Civil Defence Commissioner*, K. K. Shavan, I.A.S. ; *Mines & Vigilance Commissioner*, K. Abraham, I.A.S. ; *Secretary, Education*, R. C. Sinha, I.A.S. ; *Secretary, Local Self-Government & Housing*, H. Prasad, I.A.S. ; *Secretary, Community Projects and Panchayat*, R. B. Lal, I.A.S. ; *Secretary, Electricity and Irrigation*, S. K. Ghosh, I.A.S. ; *Secretary, Law*, Jitendra Narayan ; *Secretary, Welfare*, S. D. Prasad, I.A.S. ; *Secretary, Agriculture and Animal Husbandry*, C. R. Vaidyanathan, I.A.S. ; *Secretary, Industries*, S. K. Sinha, I.A.S. ; *Secretary, Co-operative and Cane*, R. D. Pandey, I.A.S. ; *Secretary, Supply and Commerce*, R. Nath, I.A.S. ; *Secretary, Forest & Excise*, V. Balasubramaniam, I.A.S.

HEADS OF DEPARTMENTS

Chief Administrator, River Valley Projects, S. A. F. Abbas, I.A.S. ; *Chief Conservator of Forests*, S. P. Sahi ; *Chief Inspector of Factories*, Atma Nand Singh ; *Commissioner of Labour*, I. Prasad, I.A.S. ; *Director of Agriculture*, K. P. Sinha ; *Director of Animal Husbandry*, Y. Prasad ; *Director of Industries*, S. N. Sharma ; *Director of Health Services*, Dr. S. N. Prasad ; *Director of Public Relations*, S. N. Mallick, I.A.S. ; *Director of Public Instruction*, S. Nagendra Nath ; *Inspector-General of Police*, R. A. P. Sinha, I.P. ; *Inspector-General of Prisons*, Vacant ; *Acting Registrar of Co-operative Societies*, F. Ahmad ; *Director of Employment & Trag.*, R. P. Sinha, I.A.S. ; *Chief Engineer (Kosi Project)*, R. Dutta ; *Chief Engineer (Gundak and Sone Projects)*, S. K. Bannerjee ; *Director of Tourism*, Umanath ; *Transport Commissioner*, A. K. Ghosh ; *Director, Statistics*, S. K. Sinha ; *Director, Gram Panchayat*, B. Prasad, I.A.S. ; *Director, National Employment Service*, O. W. Francis ; *Chief Engineer, (Tenughat Dam Project)*, A. P. Prasad.

HIGH COURT

Patna

Chief Justice, Satish Chandra Misra ; *Judges* : Ujjal Narain Sinha, Nand Lall Untwalia, Tarkeswar Nath, Shyamnandan Prasad Singh, G. N. Prasad, A. B. Sinha ; Ranbir Jang Bahadur, Saiyid Anwar Ahmad, Kamala Kant Dutta, Mahendra Prasad Verma, Krishna Ballabh Narayan Singh, Baidyanath Jha, Shambhu Prasad Singh, Balmiki Prasad Sinha, Prafulla Kumar Banerji, *Addl. Judges*, B. D. Singh, Kanhaiyaji, Syed Wassiuddin ; *Ad-hoc Judge* : Harihar Mahapatra. *Registrar*, Chandrika Prasad Sinha.

DELHI

ADMINISTRATIVE PERSONNEL

Lt. Governor

A. N. JHA.

Chief Executive Councillor, Vijay Kumar Malhotra ; *Chief Secretary*, S. C. Varma, I.A.S. ; *Development Commissioner*, Iqbal Singh ; *Judicial Secretary*, Desh Dipak ; *Finance Secretary*, K. K. Mathur ; *Deputy Commissioner*, B. N. Tandon, I.A.S. ; *Inspector-General of Police*, S. Bihist ; *Director of Education*, Virendra Prakash ; *Director of Public Relations*, Surya Narain Saxena ; *Director of Industries*, L. N. Saklani. *Labour Commissioner*, R. K. Ahuja. *Director of Training & Employment*, Anil Abidin. *Sales Tax Commissioner*, B. K. Sharma. *District and Session Judge*, C. G. Suri.

HIGH COURT, DELHI

Chief Justice, Vacant ; *Judges*, Hans Raj Khanna,

Satinder Kumar Kapur, Hardayal Hardy, S. N. Andley, T. V. R. Tatachari, Jagjit Singh, S. N. Shankar, Om Prakash, V. S. Deshpande, P. N. Kahanna, S. Rangarajan, Prakash Narayan.

Northern Railway

Baroda House, New Delhi.

General Manager, M. N. Bery ; *Sr. Deputy General Manager*, L. D. Panke ; *Chief Operating Supdt.*, V. P. Sawhney ; *Chief Commercial Supdt.*, T. S. Parthasarathy ; *Chief Engineer*, B. D. Gaur ; *Chief Engineer (Const.)*, U. S. Rao ; *F.A. & C.A.O.*, K. P. Taimni ; *Chief Mechanical Engineer*, V. S. Chopra ; *Chief Signal & Tele-Comm. Engineer*, P. C. Bhattacharya ; *Chief Personnel*, A. B. Lal ; *Chief Electrical Engineer*, R. L. Mitra ; *Chief Security Officer*, B. S. Chaturvedi ; *Chief Public Relations Officer*, O. P. Chopra.

* President's Rule was imposed on July 4, 1969. The Legislative Assembly has been kept in suspended animation. The situation is to be reviewed after this period.

GOA

Panaji

ADMINISTRATIVE PERSONNEL

Lt. Governor of Goa, Daman and Diu (Concurrently Administrator of Dadra and Nagar Haveli), Nakul Sen.

Ministers

Chief Minister in charge of Gen. Admn., Special Deptt., Home, Planning and Development and Finance, Dayanand Bandodkar.

Law, Industries and Labour, Agriculture & Leg. Matters, Anthony D'Souza.

Education, Public Health, Medical Services, Public Works, Information and Tourism, Prof. Gopal Mayenkar.

Minister of State, in charge of Planning and Development and Finance, Animal Husbandry, Irrigation, Social Welfare, Public Assistance & Small Savings, Achyut Usgaonkar.

Chief Secretary, G. K. Bhanot, I.A.S.; Collector of Daman, M. S. Dayal, I.A.S.; Civil Administrator of Diu, D. S. Solanki; Judicial Commissioner, V. S. Jetley; Development Commissioner, T. Kipgen, I.A.S.; Secretary Law, Legislative Assembly, R. L. Sehgal; Secretary, Industries and Labour, B. Ram, I.A.S.; Finance Secretary, N. Subramanian; Revenue Secretary, W. G. Ranadive; Director of Information & Tourism, Y. Kohli.

GUJARAT

Ahmedabad

ADMINISTRATIVE PERSONNEL

Governor

Shriman Narayan

Ministers

Chief Minister, in charge of General Administration, Planning, Home, Information and Industrial Policy, Hitendra Desai.

Panchayat, Community Projects, Co-operation, Agriculture, Forests and Sarvodaya, Thakorebhai Desai.

PWD, Civil Supplies and Electricity, Babubhai J. Patel.

Finance and Industry, Jashwant Mehta.

Education and Municipalities, Gordhandas Chokhawala.

Health, Fisheries and Jail, Fatehsinhrao Gaekwad.

Revenue, Law and Judiciary, Ports, Accommodation Control, Printing and Stationery, Gold Control and Repatriates from Mozambique, Burma and Zanzibar, Premjibhai B. Thakkar.

Labour Social Welfare, Prohibition, Excise, Rehabilitation and Housing, Shantilal R. Shah.

Road Transport, Parliamentary Affairs, Public Relations, Sports and Cultural Activities, Chimanbhai Patel.

Deputy Ministers

Agriculture, Panchayat, Community Development Projects, Co-operation and Sarvodaya, Madhavlal Shah; Public Works (excluding Irrigation) and Health, Mrs. Urmilaben Bhatt; Home, Information, Irrigation, Electricity and Civil Supply, Jairam Patel; Revenue, Shantilal S. Shah; Social Welfare, Prohibition and Excise, Himatbhai M. Rajwadi; Forests, Road Transport, Parmananddas Oza; Parliamentary Secretaries to the Chief Ministries, A. A. Mirza, V. C. Shah.

Secretariat

Chief Secretary, F. N. Rana, I.A.S.; Addl. Chief Secretary & Secretary, Finance, L. R. Dalal, I.C.S.; Secretary, Agriculture & Co-operation, F. J. Heredia, I.A.S.; Secretary, Legal, S. M. Vidyarthi; Secretary, Public Works, M. Sivagnanam, I.A.S.; Secretary, Panchayats & Health, G. F. Mankodi; Secretary, Home, M. D. Rajpal, I.A.S.; Secretary, Education and Labour, V. R. Mehta, I.A.S.; Secretary, Revenue, S. M. Dudani; Secretary, Industries, Mines &

Power, S. M. Ghosh, I.A.S.; Secretary, Civil Supplies, K. Sivraj, I.A.S.; Special Secretary, Revenue, Kumar Pradumansingji, I.A.S.

Principal Officials

Director of Agriculture, Dr. G. A. Patel; Director of Public Health & Medical Services, Dr. T. B. Patel; Director of Transport, M. R. Vyas; Inspector-General of Prisons, V. R. Patel; Director of Education and Archives, K. G. Badlani; Director of Technical Education, P. S. Kalwatchwala; Commissioner of Industries, M. Sivagnanam; Director of Information, Tourism and Examiner of Books and Periodicals, M. H. Shah; Director of Prohibition, V. R. Patel; Director of Social Welfare, C. P. Patel; Director of Fisheries, K. V. Navathe; Director of Bureau of Economics and Statistics, P. B. Buch; Director of Ports, B. C. Mehta; Director of Drugs Control, B. V. Patel; Director of Cottage Industries, Registrar of Co-Societies and Registrar of Money Lenders, H. M. Joshi; Chief Conservator of Forests, R. D. Joshi; Director of Employment Exchange and Commissioner of Labour, S. J. Shah; Commissioner of Sales Tax, R. K. Anklesaria; Chief Inspector of Factories, R. P. Patel; Inspector-General of Police, Imdad Ali; Commissioner of Police, Ahmedabad, E. F. Deboo; Vigilance Commissioner M. G. Monani, I.C.S.

Stationary Bodies

Chairman, State Fertilizer Co. Ltd., Ambika Nivas, Ashram Road, Ahmedabad, Jaykrishna Hari Vallabhdas; Chairman, Gujarat Public Service Commission, New Civil Hospital, Asarwa, Ahmedabad 16. Fatchali Palejwala; Chairman, Gujarat, S.S.C. Board (Sadhna Press Bldg., Palace Road, Baroda), M. M. Shukla; Chairman, Gujarat State Electricity Board (Race Course, Baroda), Vacant; Chairman, Gujarat State Housing Board (New Mental Hospital, Ahmedabad), N. H. Shaikh; Chairman, Gujarat State Road Transport Corporation (Vahan Vyavhar Bhavan, Gita Mandir Road, Ahmedabad), Bhailal Contractor.

High Court

Ahmedabad

Chief Justice, P. N. Bhagwati; Judges, B. J. Divan, A. R. Bakshi, N. K. Vakil, J. B. Mehta, M. U. Shah, N. G. Shelat, Akbar S. Sarela, A. D. Desai, J. M. Sheth. Addl. Judges: V. R. Shah, B. G. Thakor, D. A. Desi, B. R. Somapura, S. N. Patel, S. H. Sheth, D. P. Desai, Y. D. Desai.

Registrar, C. V. Rane.

HARYANA

Chandigarh

(Chief Commissioner, Chandigarh, R. C. V. P. Noronha).

Governor

B. N. Chakravarty

Ministers

Chief Minister in charge of General Administration (including Public Relations), Home, Administration of Justice, Transport, Vigilance, Tourism, Education, Public Works (Public Health and Technical Education), Industries and Industrial Training, Bansi Lal.

Finance, Planning, Excise and Taxation, Revenue, Rehabilitation, Languages, Animal Husbandry and Dairy Development, Mrs. Om Prabha Jain.

Irrigation and Power, Food and Supplies, Sports, and Elections, Kanhiya Lal Poswal.

Health, Local Government, Housing, Wakf, Development and Panchayats, Cooperation and Jails, Khurshed Ahmed.

Labour and Employment, Social Welfare, P.W.D. Forests, Fisheries, Agriculture, Ran Singh.

Parliamentary Secretaries, Ram Parkash, Jaswant Singh Chauhan, Goverdhan Das.

OFFICIALS

Chief Secretary, Saroop Krishen, I.C.S.; Financial Commissioner (Revenue), B. S. Grewal, I.C.S.; Financial and Planning Secretary, M. L. Batra, I.A.S.; Home Secretary, Ishwar Chandra, I.A.S.; Secretary, Industries, P.W.D. (B & R), Public Health, Architecture, Labour and Employment, Town and Country Planning, R. I. N. Ahooja, I.A.S.; Secretary, Food & Supplies, Local Government, Housing, Sports and Cultural Affairs, Sube Singh, I.A.S.; Secretary, Education, Health, Irrigation and Power, B. L. Ahuja; Secretary, Social Welfare, Welfare of Scheduled Castes and Backward Classes and Printing and Stationery, V. P. Jauhar, I.A.S.; Director of Industries, C. L. Gupta; Director, Food & Supplies, J. D. Sharma; Director, Public Relations, Ram S. Verma; Provincial Transport Controller, Hoshier Singh; Inspector General of Police, J. C. Vachher; Director of Health Services, Dr. P. R. Sondhi; Director, Public Instruction, D. I. Lall; Chairman, Public Service Commission, Darbari Lal Gupta; Director of Agriculture, Gurmeh Singh Sidhu.

HIMACHAL PRADESH

Headquarters, Simla 2.

ADMINISTRATIVE PERSONNEL

Lt. Governor

Lt. Gen. K. Bahadur Singh

Ministers

Chief Minister, in charge of General Administration, Home and Vigilance, Planning, Publicity and Tourism, Y. S. Parmar; Finance, P.W.D. and M.P.P. and Law, Karam Singh; Revenue, Medical and Public Health and Welfare, Lal Chand Prarthi; Forests, Industries and Elections, Padma Dev; Transport, Panchayats and Local Self Govt., Hari Ram Chaudhry; Education, Civil Supplies and Cooperation, Ram Lal; Development, Agriculture, Animal Husbandry, Excise & Taxation, Sukh Ram.

Deputy Ministers

Publicity, Tourism, Civil Supplies and Cooperation, Excise and Taxation, Nek Ram Negi; Agriculture, Development, Medical and Public Health, Daulat Ram Sankhian; Local Self Govt., Forests and Panchayats, Wazir Kartar Singh; Industries, Animal Husbandry and Law, Mehnga Singh; Welfare, P.W.D. and M.P.P. and Elections, Vidya Dhar.

Secretariat

Chief Secretary and Secretary, Apptt. Confidential and Cabinet, Administrative Reforms, Secretariat Adm., General Adm., Vigilance, Public Relations, Transport, Civil Supplies and Plang., K. N. Channa, I.A.S.; Financial Commissioner and Secretary, Revenue, Excise and Taxation, Public Works and Tech. Education, U. N. Sharma, I.A.S.; Commissioner, Revenue & Land Reforms and Secretary, Land Reforms, Medical and Public Health, Welfare, Panchayat and Edn.; S. C. Jain, I.A.S.; Finance Secretary and Secretary, Tourism and Economics & Statistics, P. R. Mahajan; Judicial Secretary and Secretary, Law, Local Self Government, Elections, Relief & Rehabilitation, Legal Remembrancer, and Legislative Business, D. B. Lall; Devpt. Commissioner and Secretary Devpt., Agriculture, Animal Husbandry, Fisheries, Cooperation, Industries, Forests and Additional Secy. Planning, P. K. Mattoo, I.A.S.; Secretary to Lieutenant Governor and Secretary, Border Devpt., Raghubir Singh, I.A.S.; Director of Health Services, Dr. Jai Lal; Chief Conservator of Forests, Bachan Singh; Director of Education, Miss K. Pasricha; Director of Animal Husbandry, G. C. Negi; Director of Agriculture, Dr. B. S. Jogi; Inspector General of Police, M. G. Singh, I.P.S.; Director of Economics & Statistics, M. L. Jain; Director of Public Relations, H. K. Mittoo; Director of Fisheries, H. L. Tandon; Inspector General of Prison, A. N. Dixit.

JAMMU AND KASHMIR

Srinagar

ADMINISTRATIVE PERSONNEL

Governor

Bhagwan Sahay, I.C.S.

COUNCIL OF MINISTERS

Chief Minister, in charge of General Adm., Services,

Cabinet Work, Civil Secretariat, Law and Order, Tawaza and Reception, Education, Agri. Production, Irrigation, Languages, Tourism, Ghulam Mohd. Sadiq.

Land Revenue, Weights and Measures, Evacuee Property, Information & Publicity, Relief & Rehabilitation, Law and Judiciary, Excise & Taxation, Finance & Budget, Food Supplies & Price Control, G. L. Dogra.

Health, Jails, Municipalities, Social Welfare, Scheduled Castes and Backward Classes, Forests, Fisheries, Moh'd Ayub Khan.

Industries & Commerce, J. & K. Mineral Industries, Employment Exchanges, Power, Ladakh Affairs, Trade Commission & Trade Agencies, Labour, Peer Gias-ud-Din.

Roads & Bldgs., Flood Control, Public Health Engg., Housing & Transport, Ranjit Singh Jamwal.

Ministers of State, Abdul Ghani Goni (Finance), Sonam Wangyal (Planning & Co-operation).

Deputy Ministers

Education and Tourism, Noor Mohammad; Agriculture and Horticulture, Mufti Moh'd Syed; Animal Husbandry, Community Development and National Extension Service, Mohammad Shafi; Rehabilitation and Consolidation, Gurmukh Singh; Information & Publicity, Moh'd Din Bandey; Transport, Parma Nand.

Secretariat

Chief Secretary, P. K. Dave, I.A.S.; Secretary, General Deptt., Hari Ram Sharma; Secretary, Planning, S. K. Sehgal, I.A.S.; Secretary, Home, G. R. Renzu; Secretary, Education, Tirth Ram; Secretary, Revenue, Yog Dhian; Secretary, Works & Power, P. N. Wanchoo; Secretary, Health, P. N. Kaul, I.A.S.; Secretary, Supplies, Food &

Transport, S. N. Dogra, I.A.S.; Secretary, Agriculture, Noor Mohammed, I.A.S.; Secretary, Information & Publicity, Janki Nath Zutshi; Secretary, Tourism, Sri Kanth Raina; Secretary, Industries, G. M. Mir.

HEADS OF DEPARTMENTS

Divisional Commissioner, Kashmir, S. A. S. Qadri, I.A.S.; Divisional Commissioner, Jammu, Chaudhury Bharat Bhushan, I.A.S.; Inspector General of Police, Surinder Nath, I.P.S.; Director of Information & Publicity, Ganesh Das Sharma; Director of Health Services, S. K. Koul; Director of Tourism, Mir Nasur-Ullah; Director of Geology & Mining, S. S. Malhotra; Director of Animal Husbandry, Dr. B. A. Shirazi; Director of Agriculture, M. S. Nann; Director of Fisheries, Ghulam Mohammed Malik; Financial Commissioner, S. M. Aga, I.A.S.; Transport Commissioner, Sheikh Ghulam Ahmed; Labour Commissioner, M. Y. Andrabi; Chief Conservator of Forests, Ghulam Naqashband; Controller of Tawaza, S. K. Biswas; Registrar, Co-operative Societies, Thakur Sukh Dev Singh Pathania.

HIGH COURT

Jammu

Chief Justice, Syed Murtaza Fazl Ali; Judges, J. N. Bhat, Raja Jaswant Singh, Mian Jalal-Ud-din (Addl.), Anant Singh (Ad Hoc.); Registrar, R. S. Gupta.

KERALA

Trivandrum

ADMINISTRATIVE PERSONNEL

Governor, V. Viswanathan, I.C.S.

Ministers

Chief Minister in charge of General Administration, Integration, Planning, Home (Police, Election, Anti-corruption), Administration of Civil and Criminal Justice, Finance, Information and Publicity, Subjects not mentioned elsewhere, E. M. S. Namboodiripad.

Revenue (excluding Registration), Law and Legislation, Social Welfare (excluding Harijan Welfare), Smt. K. R. Gouri.

Transport and Communication (including Ports, P. & T. and Railways), Motor Vehicles, Jails, Archaeology and Museum & Zoo, Food & Civil Supplies, E. K. Imbich Bava.

Forests, Harijan Welfare, Colonisation & Settlement Schemes, Housing (excluding Industrial Housing), M. K. Krishnan.

Agriculture, Animal Husbandry, Dairy Development and Electricity, M. N. Govindan Nair.

Industries & Commerce (including Industrial Cooperatives), Cement, Iron and Steel, Industrial Housing, Handloom & Coir, Sports and Sports Association, Mining and Geology, T. V. Thomas.

Irrigation, Cooperation (excluding Industrial Cooperatives) and Devaswom, P. R. Kurup.

Education and Wakf Board, C. H. Mohammed Koya.

Panchayats, Community Development, Fisheries and Village Courts, Avukhader Kutty Naha.

Public Works (General Administration, Buildings & Roads), Town Planning, Tourism and Tourist Departments, Printing and Stationery, Corporations and Municipalities and Trivandrum City Improvement Trust, T. K. Divakaran.

Health Ayurveda and Public Health Engineering, B. Wellington.

Labour, Training & Employment, Factories & Boilers, Mathai Manjooran.

ADMINISTRATIVE PERSONNEL

Chief Secretary, M. Gopala Menon, I.C.S.; Addl. Chief Secretary and Industrial Development Commissioner, George Thomas, I.A.S.; Special Secretary, Home & Public, S. Ananthakrishnan, I.A.S.; Secretary, Finance, P. Velayudhan Nair, I.A.S.; Commissioner for Agricultural Production, N. Chandrabhanu, I.A.S.; Addl. Secretary, Agri., T. V. Swaminathan, I.A.S.; Secretary, Development and Development Commissioner, P. K. Abdullah, I.A.S.; Secretary, Health, Smt. Padma Ramachandran, I.A.S.; Secretary, Industries, K. B. Warriar, I.A.S.; Secretary, Revenue, A. K. K. Nambiar, I.A.S.; Secretary, Planning, V. Ramachandran, I.A.S.; Secretary, Law, A. P. Muhammed Ali; Addl. Secretary, Law, P. Sankunni Menon; Secretary, Education, K. C. Sankaranarayanan, I.A.S.; Addl. Secretary, Education, P. K. Umashankar, I.A.S.; Secretary, Public Works, R. Gopalaswamy, I.A.S.; Secretary, Legislative Assembly, V. P. Neelakantan Namboodiri; Secretary, Water & Power, K. P. Viswanathan Nair, I.A.S.; Secretary, Labour & Social Welfare, C. K. Kochukozhy, I.A.S.; Addl. Secretary, Revenue, N. Kaleeswaran, I.A.S.; Addl. Secretary, Planning, S. Padmakumar, I.A.S.

HEADS OF DEPARTMENTS

Director of Agriculture, Dr. M. S. Nair; Director of Animal Husbandry and Veterinary Services, Dr. M. N. Menon; Director of Public Instruction, A. K. Narayanan Nambiar; Director of Industries & Commerce, Dr. V. Venkitanarayanan, I.A.S.; Director of Health Services, Dr. V. S. Gopalakrishnan; Director of Public Relations, M. Divakaran; Director of Fisheries, Dr. A. I. George; Director of Harijan Welfare, S. Gopalan, I.A.S.; Director,

Bureau of Economics and Statistics, Dr. P. K. Gopala-krishnan; *Inspector General of Police and Commandant General, Home Guards*, M. Gopalan, I.P.S.; *Inspector General of Prisons*, V. Raghavan Nair; *State Port Officer & Marine Adviser to the Govt.*, P. P. Prasad; *Labour Commissioner*, N. Kochukrishnan; *Director of Employment and Training*, Zacharia Mathew, I.A.S.; *Registrar of Co-operative Societies*, K. Madhavan Nair, I.A.S.; *Director of Collegiate Education*, V. Gopalan Nair; *Director of Technical Education*, T. C. George; *Director, Tourist Department*, M. Vasu Menon; *Director of Archaeology*, N. G. Unnithan; *Director of State Lotteries*, K. V. Thomas;

Vigilance Commissioner, M. Ramanatha Pillai; *Chairman, Public Service Commission*, M. K. Devassy.

HIGH COURT

Ernakulam

Chief Justice, P. T. Raman Nayar; *Judges*, T. C. Raghavan, M. Madhavan Nair, P. Govindan Nair, K. K. Mathew, V. P. Gopalan Nambiyar, T. S. Krishnamoorthy Iyer, S. Sadasivan, V. R. Krishna Iyer, P. Narayana Pillai, P. Subramonian Poti, E. K. Moidu; *Registrar*, S. Sivaraman; *Advocate-General*, M. Abdul Kader.

MADHYA PRADESH

Bhopal

ADMINISTRATIVE PERSONNEL

Governor

K. C. REDDY

MINISTERS

Chief Minister in charge of General Administration, Home, Publicity, Languages, Irrigation & Electricity, Shyama Charan Shukla; *Finance, Separate Revenue & Registration*, Pandit Kunjilal Dube; *Local Government (Urban)*, Hari Prasad Chaturvedi; *Commerce and Industry*, Vasant Rao Wickey; *Forest, Natural Resources, Public Health, Engineering*, Shatrughan Singh Tiwari; *Education*, Jagdish Narain Awasthi; *Harijan Welfare & Transport*, Vedram; *Revenue, Survey and Settlement, Land Records, Land Reforms, Law, Krishnapal Singh*; *Labour, Housing*, Gangaram Tiwari; *Tribal Welfare*, Bhanu Pratap Singh Komakhan; *Public Health and Jail*, Dr. Devi Singh; *Local Government (Rural), Social Welfare*, Shiv Bhanu Solanki; *Public Works*, Mahant Bisahudas; *Agriculture, Food, Civil Supplies*, Bhagwat Sabu; *Planning and Development, Economics and Statistics, Co-operation, Rehabilitation*, Krishna Narain Pradhan.

MINISTERS OF STATE

Education, Bhopalrao Pawar; *Home*, Nandkishore Sharma; *Education, Social Welfare*, Shrimati Sushila Dixit; *Electricity and Irrigation*, Kumari Vimla Verma; *Irrigation*, Jhumaklal Bhedia; *Forest*, Parasram Dhurve; *Separate Revenue, Local Government (Rural)*, Hariprasad Shukla; *Tribal Welfare*, Pyarelal; *Public Health, Co-operation*, Chitrakant Jaiswal; *Home*, Brijkishore Pateria; *Irrigation*, Chandmal Lunia; *Agriculture and Public Works*, Madhavlal Dube; *Revenue, Survey and Settlement, Land Records, Land Reforms, Law*, Kedarnath Rawat; *Commerce and Industry*, Jugalkishore Bajaj; *Local Government (Urban)*, Jail, Prabhu Narain Tandon; *Housing*, Waqf, Mohammed Bashir Khan; *Publicity*, Nandram Das Balkavi Bairagi.

DEPUTY MINISTERS

Tribal Welfare, Prabhudayal Gahalot, Deo Sai; *Local Government (Rural)*, Kanhaiyalal Kosariya; *Harijan Welfare*, Chhotelal.

PARLIAMENTARY SECRETARIES

Public Health, Lakshman Ram; *Electricity*, Sitaram Sadho; *Public Works*, Ram Prasad Singh; *Forest*, Fateh Singh Wadiva.

SECRETARIES

Financial Commissioner-cum-Controller General of State Income and Expenditure, M.P., and Ex-Officio Special Secretary, G.A.D., R. P. Noronha; *Chief Secretary*, M. P. Shrivastava; *Addl. Chief Secretary, Home*, M. S. Chaudhari; *Spl. Secretary, Home*, E. B. Reinboth; *Spl. Secretary, Planning & Development*, B. P. Pathak; *Secretary, Education*, R. C. Roy; *Secretary, Finance*, R. N. Malhotra; *Secretary, Revenue*, R. K. Khanna; *Secretary, Agriculture*, Narayan Singh; *Secretary, P.W.D.*, B. V. Vora; *Secretary, Commerce & Industries*, Devi Sahai; *Secretary, Public Health*, R. P. Mishra; *Secretary, Irrigation*, S. B. Lal; *Secretary, Law*, S. U. H. Pagare; *Secretary, Forest*, M. S. Singh Deo; *Secretary, Tribal Welfare, Harijan Welfare*, M. P. Singh; *Spl. Secretary, Agriculture*, P. S. Raizada; *Addl. Secretary, G.A.D.*, M. H. Rao; *Addl. Secretary, Finance*, Manohar Keshav.

HEADS OF DEPARTMENTS

Inspector General of Police (Bhopal), B. M. Shukla; *Director of Agriculture (Bhopal)*, R. K. Tikku; *Director of Industries (Bhopal)*, A. N. Verma; *Labour Commissioner (Indore)*, M. M. Khar; *Chief Conservator of Forests (Bhopal)*, K. N. Mishra; *Director of Economics & Statistics (Bhopal)*, Dr. K. B. L. Bhargava; *Inspector General of Prisons (Bhopal)*, L. S. Naidu; *Director of Public Instruction, (Bhopal)*, Dr. S. P. Verma; *Director of Veterinary Services (Bhopal)*, N. C. Kaushas; *Director of Fisheries (Bhopal)*, G. P. Dube; *Director of Health Services (Bhopal)*, Dr. Prakash Narain; *Vigilance Commissioner (Bhopal)*, V. R. Sen; *Director of Information & Publicity (Bhopal)*, A. M. Shastri; *Director of Tourism (Bhopal)*, I. S. Parihar; *Transport Commissioner (Gwalior)*, S. K. Sharma; *Sales Tax Commissioner (Indore)*, N. V. Krishnan; *Director of Training & Employment (Jabalpur)*, Mohd. Akbar; *Director of Technical Education (Bhopal)*, S. R. Beedkar.

HIGH COURT

Judges at Jabalpur, Bishamber Dayal (*Chief Justice*), T. P. Naik, P. K. Tare, K. L. Pandey, S. P. Srivatsava, N. M. Golvalkar, S. P. Bhargava, R. J. Bhawe, Surajbhan Grover, A. P. Sen, G. P. Singh, S. M. N. Raina (*Ad Hoc*), G. Jamnalal (*Ad Hoc*); *Judges at Indore*, H. R. Krishnan, S. B. Sen, M. A. Razzaque, G. L. Oza; *Ad Hoc Judge*, V. R. Newaskar.

MAHARASHTRA

Bombay

ADMINISTRATIVE PERSONNEL

Governor

DR. P. V. CHERIAN

Ministers

Chief Minister-in-Charge of General Administration, Home, Planning and Co-operation, V. P. Naik.

Revenue, D. S. Desai.

Irrigation, Power and Generation of Electricity, S. B. Chavan.

Agriculture, P. K. Sawant.

Urban Development, P. G. Kher.

Finance, Law and Judiciary and Small Savings, S. K. Wankhede.

Education, M. D. Chaudhari.

Labour, N. M. Tidke.

Public Health and Waks, Dr. Rafik Zakaria.

Forests, N. K. Tirpude.

Industries, Electricity (except Generation of Electricity) and Printing Presses, R. A. Patil.

Housing & State Road Transport Corporation, Y. J. Mohite.

Buildings & Communications, M. A. Vairale.

Food, Civil Supplies, Khar Lands and Fisheries, H. G. Vartak.

Prohibition, B. M. Yagnik.

Social Welfare, B. M. Bharaskar.

Deputy Ministers

Electricity, Irrigation, Power and Agriculture, B. J. Khatal; Home, Food and Civil Supplies, K. P. Patil; Buildings and Communications, Fisheries, Labour, Khar Lands and Legislative Affairs, D. S. Jagtap; Revenue and Co-operation, S. B. Patil; Urban Development, Housing, State Road Transport Corpn. and Small Savings, Madangopal Agarwal; Rural Development, V. B. Hiray; Education and Industries, S. A. Solanke; Public Health and Prohibition, Mrs. Pratibha Patil; Forests, R. M. Patil.

Sachivalaya, Bombay 32

GENERAL ADMINISTRATION DEPARTMENT

Chief Secretary, B. B. Paymaster, I.C.S.; Secretary and Additional Development Commissioner, N. G. Abhyankar, I.A.S.; Secretary, M. W. Desai, I.A.S. (Also Dir. of Relief & Rehabilitation); Commissioner (Adm. Reorganisation), M. N. Heble; Secretaries, G. A. Sharma, G. H. Lalwani.

OTHER DEPARTMENTS

Secretaries, Home Department, L. G. Rajwade, I.C.S., Jasjit Singh, I.C.S.; Secretary, Finance Department, V. M. Joshi, I.C.S.; Director of Accts. & Treasuries & Addl. Secretary, D. Ramachandra Rao; Secretary, Buildings & Communications Department, Nizamuddin Ahmed; Secretary, Urban Development, Public Health & Housing Department, B. A. Kulkarni; Secretaries, Agriculture & Cooperation Department, S. E. Suthankar, L. N. Bongirwar, S. B. Kazi; Secretary, Revenue & Forests Department, A. S. Naik, I.C.S.; Secretary, Rural Development Department, Dr. A. U. Shaikh; Secretary, Industry & Labour Department, S. V. Bhavo; Industries Commissioner, Dr. M. N. Desai; Secretary, Food & Civil Supplies Department, S. B. Kulkarni; Directors of Civil Supplies, V. T. Chari, S. Ramamoorthi, N. R. Ranganathan; Controller of Rationing, K. K. Uppal; Secretary, Irrigation & Power Deptt.,

N. S. Pardasani; Secretary, Law and Judiciary Deptt. and Remembrancer of Legal Affairs, B. P. Dulal, I.C.S. (Retd.); Addl. Secretary, S. B. Palekar; Secretary, Education & Social Welfare Department, G. H. Patwardhan.

HEADS OF DEPARTMENTS

Vigilance Commissioner, Vacant; (Office: Old Secretariat, Bombay 32); Accommodation Controller, H. S. Nargund; Director of Education (Poona), C. G. Sahasrabudhe (Offg.); Director of Public Health (Poona), Dr. D. A. Pundlik; Director of Agriculture (Poona), Dr. K. G. Joshi; Director of Fisheries (Bombay), Dr. C. V. Kulkarni; Director of Animal Husbandry, Poona, S. S. Tinaikar; Settlement Commissioner & Director of Land Records & Inspector-General of Registration (Poona), S. M. Kamrudin, I.A.S.; Registrar of Firms (Bombay), R. S. Barve; Chief Port Officer (Bombay), V. V. Jawadekar; Chief Conservator of Forests (Poona), S. S. Buit; Director of Ayurved (Bombay), Vaidya R. D. Jaiswal; Charity Commissioner, C. P. Godsay; Director of Technical Edn., Prof. G. V. Sapre; Inspector-General of Prisons, Poona, D. J. Jadhav; Director of Prohibition & Excise (Old Custom House, Bombay 1), P. M. Shahane; Director of Drugs Control (Manekji Wadia Bldg., 127, M. Gandhi Road, Bombay 1), M. K. Rangnekar; Commissioner of Labour and Director of Employment (Commerce Centre, 6th & 7th floors, Tardeo, Bombay 34), D. G. Kale; Chairman, Maharashtra State Board of Secondary Education (Shivajinagar, Poona 10), V. A. Apte (Offg.); Commissioner of Sales Tax (Vikrikar, 7th floor, Mazagaon, Bombay 10), H. B. Munshi; Chairman, Maharashtra Housing Board (Azad Maidan, Mahapalika Marg, Bombay 1), N. S. Patil; Housing Commissioner and Secretary, V. D. Kirpekar; Commissioner for Co-operation and Registrar of Co-operatives (Poona 1), R. A. Zubairy; Divisional Commissioners, R. C. Joshi, I.C.S. (Bombay Dn.), M. V. Deo (Poona Dn.), L. S. Sundara Rajan (Aurangabad Dn.), D. H. Deshmukh (Nagpur Dn.).

BOMBAY PORT TRUST

Ballard Road, Bombay 1.

Chairman, L. M. Nadkarni; General Manager, Govind H. Sheth; Officer on Special Duty, P. R. Subramaniam; Secretary, S. D. Chittar.

INCOME-TAX DEPARTMENT, BOMBAY CITY I, II AND III

Aayakar Bhavan, Maharshi Karve Road, Bombay 20.

Commissioner of Income-tax, Bombay City I, M. B. Palekar; Commissioner of Income-tax, Bombay City II, C. C. Ganapathy; Commissioner of Income-tax, Bombay City III, Vacant; Commissioner of Income Tax, Central, Bombay, S. V. Ramaswamy; Public Relations Officer, C. K. Mirchandani.

HIGH COURT OF JUDICATURE

Fort, Bombay 1.

Chief Justice, S. P. Kotval; Puisne Judges, N. A. Mody, D. V. Patel, V. S. Desai, K. K. Desai, N. L. Abhyankar, M. G. Chitale, Y. V. Chandrachud, D. G. Palekar, R. M. Kantawala, V. G. Wagle, V. D. Tulzapurkar, B. D. Bal, B. N. Deshmukh, D. B. Padhye, J. R. Vimadalal, V. S. Deshpande, N. P. Nathwani, J. L. Nain, D. P. Madon, M. N. Chandurkar, D. G. Gatne, M. S. Apte, R. R. Bhole, G. N. Vaidya, N. D. Kamat.

Registrar, P. S. Malvankar; Advocate-General, S. M. Seervai; Sheriff of Bombay, S. M. Dahanukar; Dy. Sheriff of Bombay, D. R. Motafram.

**CITY CIVIL AND SESSIONS COURT,
GREATER BOMBAY**

Principal Judge and Sessions Judge, S. K. Desai; *Judges*, G. G. Bhojraj, P. K. Gupte, A. R. Shimpi, C. T. Dighe, L. J. Manjrekar, D. M. Rege, B. Lentin, F. F. Coutinho, D. L. Bhoijwani, N. M. Shanbhag, B. J. Rele, H. M. Thakar, N. K. Parekh, D. N. Mehta, R. R. Jahagirdar, H. Suresh, G. H. Guttal, S. A. Kirtikar; *Registrar, City Civil Court*, V. K. Kulkarni; *Registrar, City Sessions Court*, V. N. Multani.

**OFFICE OF THE INSPECTOR-GENERAL
OF POLICE**

Old Secretariat Bldg., II Floor, Bombay.

Inspector-General of Police, A. G. Rajadhyaksha, I.P.; *Assistant Inspectors-General of Police*, S. V. Tankhiwale, I.P.S., H. C. Almeida I.P.S.

GREATER BOMBAY POLICE FORCE

Dadabhoy Naoroji Road, Opp. Jyotiba Phule Market, Bombay 1.

Commissioner of Police, E. S. Modak; *Dy. Commissioners of Police*, M. G. Katre, S. K. Prabhakaran, S. Ramamurthi, J. F. Ribeiro, J. A. Scott, J. J. Jameson, N. S. Karkare, S. V. Chavan, A. R. Daffe, S. D. Rege, R. S. Kulkarni, D. S. Soman, J. T. F. Gurr, S. S. Bhosale.

DIRECTORATE OF PUBLICITY

Sachivalaya, Bombay 32.

Director of Publicity and Tourism, Y. H. Pitke; *Dy. Director of Publicity (Publication)*, D. R. Samant; *Dy. Director of Publicity (Public Relations)*, V. G. Deshmukh; *Dy. Director of Publicity (News)*, G. S. Patke; *Dy. Director of Publicity (Films)*, Kumarsen Samarth; *Dy. Director of Publicity (Exhibition)*, A. K. Kanitkar; *Jt. Director (Tourism)*, S. W. Sohani.

**MAHARASHTRA STATE ROAD TRANSPORT
CORPORATION**

Maharashtra Vahatuk Bhavan, Bellasis Road, Bombay 8.

Chairman, R. G. Saraiya; *Vice-Chairman*, V. S. Tambay; *General Manager*, P. G. Salvi; *Chief Accounts Officer*, P. C. Roy; *Dy. General Manager (Mech. Engg.)*, N. G. Pandit; *Dy. General Manager (Traffic)*, Dr. S. G. Patwardhan; *Divnl. Controller (Adm)*, V. D. Shirke; *Dy. General Manager (Stores & Purchase)*, M. K. Mantri; *Public Relations Officer*, D. M. Nadkarni.

BUREAU OF ECONOMICS AND STATISTICS

D. D. Bldg., Old Custom House, Bombay 1.

Director, S. M. Vidwans; *Joint Directors*, S. P. Gothoskar, D. R. Deoras.

**OFFICE OF THE DIRECTOR, GREATER BOMBAY
MILK SCHEME**

Wakefield House, Ballard Estate, Bombay 1.

Director, Greater Bombay Milk Scheme, Y. V. Salpekar.

WORLI DAIRY, WORLI, BOMBAY-18.

Controller, Milk Transport, D. R. Engineer; *General Manager, Aarey and Worli Dairies*, K. G. Bhide; *Controller, Procurement and Distribution*, V. R. Patkar. **AAREY MILK COLONY, AAREY, BOMBAY-65.**

Chief Executive Officer (Colony), N. D. Dalvi.

PUBLIC SERVICE COMMISSION

Bank of India Building, Mahatma Gandhi Road, Bombay 1.

Chairman, Dr. D. Y. Gohokar; *Secretary*, R. A. Kodkani.

GOVT. OF INDIA TOURIST OFFICE

123, Queen's Road, Bombay 20.

Director, Mrs. S. Jagannathan; *Asstt. Directors*, K. P. V. Rao, Miss V. Maneklal, E. Pereira.

PRESS INFORMATION BUREAU

United India Bldg., Sir Pherozeshah Mehta Road, Fort, Bombay 1.

Deputy Principal Information Officer, A. Datta-Majumdar; *Information Officer*, T. K. Jhuremalani.

MUNICIPAL CORPORATION OF GREATER BOMBAY

Municipal Offices, Fort, Bombay 1.

Mayor, J. K. Joshi; *Municipal Commissioner for Greater Bombay*, J. B. D'Souza; *Dy. Municipal Commissioners*, S. M. Y. Sastry and V. C. Vaidya; *Dy. Municipal Commissioner (Improvements)*, C. Soares; *Dy. Municipal Commissioner*, M. R. Natrajan; *Dy. Municipal Commissioner (Labour)*, R. J. Tamboli; *City Engineer*, V. D. Desai; *Hydraulic Engineer*, L. G. Dhayagude; *Executive Health Officer*, Dr. D. V. Parulekar; *Assessor & Collector*, B. H. Prabhavalkar; *Labour Officer*, Smt. Freny A. Irani; *Public Relations Officer & Editor*, "Bombay Civic Journal", N. A. Mistri; *Municipal Secretary*, P. C. Pandya; *Educational Officer*, Dr. Smt. Madhuri R. Shah.

B.E.S.T. UNDERTAKING

BEST House, Bombay 1.

General Manager, G. H. Lalvani; *Asstt. Gen. Manager*, K. N. Rao; *Secretary*, K. P. Dhuru; *Chief Traffic Manager*, C. D. Jeffereis; *Public Relations Officer*, S. R. Paranjpe.

CENTRAL RAILWAY

Hqrs. Office:—Victoria Terminus, Bombay.

General Manager, B. S. D. Baliga; *Senior Deputy General Manager*, L. C. Mohindra; *Deputy General Manager (General)*, L. F. X. Freitas; *Statistical Officer*, B. K. Prasad; *Compilation Officer*, T. Natesan; *Chief Public Relations Officer*, H. V. Samuel; *Commercial Publicity Officer*, R. T. Shahani; *Chief Personnel Officer*, Vacant; *Chief Engineer*, Hari Sinha; *Chief Engineer (Construction)*, S. Rodrigues; *Chief Operating Superintendent*, V. Ramanathan; *Chief Commercial Superintendent*, S. Rajagopalan; *Chief Mechanical Engineer*, P. N. Khanna; *Chief Signal & Tele-Communication Engineer*, R. K. Dandekar; *Chief Electrical Engineer*, V. S. Gupta; *Financial Adviser & Chief Accounts Officer*, K. T. Mirchandani; *Chief Security Officer*, H. S. Kohli, I.P.S.

WESTERN RAILWAY

HEADQUARTERS OFFICE, CHURCHGATE, BOMBAY.

General Manager, G. S. Khosla; *Senior Deputy General Manager*, S. S. Surana; *Dy. General Manager (General)*, J. S. Khergamvala; *Chief Public Relations Officer*, Kartar Singh; *Statistical Officer*, A. Araujo; *Law Officer*, M. V. Basarkar; *Chief Personnel Officer*, V. Giridharadas; *Financial Adviser & Chief Accounts Officer*, G. F. Penn Anthony; *Chief Engineer*, M. J. Patel; *Chief Engineer (Survey & Construction)*, T. R. Vaccha; *Chief Signal & Telecommunication Engineer*, R. S. Mehta; *Chief Electrical Engineer*, N. Ramamurthy; *Chief Mechanical Engineer*, M. M. Bam; *Chief Operating Superintendent*, R. Sampath; *Chief Commercial Superintendent*, S. R. Gokhale; *Chief Security Officer*, R. B. K. Warrior.

RAILWAY SERVICE COMMISSION, BOMBAY

(Churchgate Station Bldg., 1st Floor, Bombay 20)

Chairman, G. D. Tapase; *Member*, P. B. Jain; *Asstt. Secretary*, R. Nataraajan.

MANIPUR

Imphal

ADMINISTRATIVE PERSONNEL

Chief Commissioner, Vacant

MINISTERS

Chief Minister in charge of Confidential and Cabinet Department, Home, Secretariat Administration, Appointment and Services, Public Works, Planning and Development, Agriculture, Animal Husbandry and Veterinary, M. Koireng Singh.

Education, Local Self-Government, Law, Labour, Publicity including Information and Tourism, Government Press, N. Tombi Singh.

Medical and Public Health, Industries, Transport, Gaukhenpau.

Finance, Forest and Revenue, L. Solomon.

Chief Secretary, A. N. Segal; Judicial Commissioner, Jagananda Charyulu; Deputy Commissioner; S. C. Vaish; Secretary (Development), Amar Sinha; Secretary (Law), O. P. Mehrotra; Secretary (Medical and Edn.), M. C. Verma; Secretary (Finance), R. Kalyan Sundaram; Dist. and Sessions Judge, O. Thambal Singh; Publicity Officer, S. Gopendra Sharma; Director, Medical and Health Services, Chandra Mohan; Registrar, Co-operative Societies, K. Lamphel Singh; Director of Agriculture, L. Udhob Singh.

MYSORE

Bangalore 1.

Governor

Vacant.

MINISTERS

Chief Minister in charge of General Administration, Home, Irrigation and Electricity, Veerendra Patil.

Transport, Mohamad Ali Mehtab Ali.

Agriculture, B. Rachiah.

Finance and Youth Affairs, Ramakrishna Yegde.

Labour, K. Puttaswamy.

Education, K. V. Shankara Gowda.

Development, P. M. Nadagouda.

Public Works, K. Lakkappa.

Industries and Information, Rajasekhara Murthy.

Health, Y. Ramakrishna.

Social Welfare, Vasant Rao Patil.

Revenue, H. V. Koujalgi.

Ministers of State

A. J. Doddameti (Minor Irrigation), Alur Hanumanthappa (Forest), G. B. Shankar Rao (Veterinary and Animal Husbandry), H. C. Linga Reddy (Fisheries and Ports), B. Vithaldas Shetty (Food and Civil Supplies).

Deputy Ministers

H. C. Boriah (Transport and Tourism), A. P. Appanna (Industries), D. B. Pawar (Agriculture), B. L. Gowda (Co-operation), D. Parameswarappa (Major Irrigation and Electricity), Mrs. Basavarajeswari (Social Welfare), G. Basavannappa (Health), N. M. Kotrabasaviah Sogi (Education), Basavaraj Magavi (Public Works), G. Thammanna (Sericulture), Manikrao Patil (Home).

SECRETARIAT

Chief Secretary, R. N. Vasudeva; Secretaries: Md. Rahamatulla (Agriculture and Forests); M. D. Shivanan-

jappa (Commerce and Industries); R. Bharaniah (Development); T. R. Jayaraman (Education); M. Veerara Urs (Finance); R. Anandakrishnan (Food); N. Lakshman Rau (Home); S. V. Papa Reddy (Law); G. V. K. Rao (Spl.—Agriculture); Chandappa Patil (Public Works); M. S. Swaminathan (Revenue).

HEADS OF DEPARTMENTS

Director of Agriculture, Dr. H. R. Arokeri; Director of Animal Husbandry, Dr. D. Rudriah; Registrar of Co-operative Societies, C. A. Jhamkandimath; Director of Public Instruction, S. V. Javoor; Director of Collegiate Education, Smt. M. Jayalakshammanni; Director of Technical Education, V. V. Shantamallappa; Director of Fisheries, G. L. Rao; Director of Food Supplies, Mani Narayanaswamy; Chief Conservators of Forests, N. S. Kaikini and D. Nanjundappa; Director of Health Services, Dr. H. Shama Sastry; Director of Industries, S. Sampath Kumar; Director of Information, M. D. Mariputtanna; Labour Commissioner, V. Hanumanthappa; Inspector General of Police, S. N. Hosali; Directors, R. Sampath Kumaran (Employment); R. Seshadri (Bureau of Economics & Statistics, V. R. Uthman (Sericulture); Chairman, Mysore, Public Service Commission, Park House, Bangalore 1, R. V. Bidap.

HIGH COURT

Public Office Bldgs., Bangalore 1.

Chief Justice, Vacant; Judges, A. R. Somnath Iyer; M. Sadasivayya; A. Narayana Pai; Ahmed Ali Khan; B. M. Kalagate; G. K. Govinda Bhat; T. K. Tukol; K. R. Gopi Vallabha Iyengar; D. M. Chandra-shekhara; M. Santosh; C. Honniah; K. Bhimiah; B. Venkataswamy; M. Sadanandaswamy.

Registrar, P. Subramaniam; Advocate-General, V. S. Mallimath.

NAGALAND

Kohima

EXECUTIVE COUNCIL

Governor

B. K. NEHRU

MINISTERS

Chief Minister in Charge of Home and General Administration, Information and Publicity, Hokishe Sema.

Finance and Revenue, Planning and Co-operation, Industries and Commerce, R. C. Chitten Jamir.

Education and Cultural, Research, Forests, Geology and Mining, Soil Conservation, John Bosco Jasokie.

Public Works Department and Electricity, T. N. Angami.

Tuensang Affairs, Supplies and Excise, Akum Imlong.

Law and Parliamentary Affairs and Agriculture, T. Kikon.

Ministers of State

Transport and Communication, Relief and Rehabilitation, N. I. Odyuo; Medical and Public Health, Co-operation, Ihezha Zhimomi; Community Development, Town and Country Planning, including Local Development Works, Koramoa Jamir; Veterinary and Animal Husbandry, Jails, Chingwang Konyak; Education, Social Welfare, Weprenyi Kapfo.

Deputy Ministers

Forests and Fishery, Zulutemba Ao; Public Works Department, Riga Thong; Information and Publicity, Nihovi Sema; Medical and Public Health, Tochi Hanso; Agriculture, Punuho.

Parliamentary Secretary, Tsebondse Sangtam.

Secretary, Planning, H. Zopianga; Spl. Secretary, Education and Research, R. H. M. D'Silva; Secretary, Law and Parliamentary Affairs, O. Kathipri; Secretary, P.W.D. and Electricity, T. Aliba Imti; Secretary, Industry and Commerce, Elections, I. Shehimeren Aier; Dy. Secretary, Finance and Revenue, R. S. Shivani; Jt. Secretary, Supply and Relief, J. S. Halliday; Jt. Secretary, Medical, Public Health, Co-operation and Excise, Z. Obed; Jt. Secretary, Home, Information and Publicity, Rehabilitation, Tourism and Inspector-General of Prisons, D. Kent; Jt. Secretary, Transport, I. Longkumar; Jt. Secretary, Agriculture, Forests, etc. N. Jakhalu.

Directors

Forest, L. Rynjah; Agriculture, I. Panger Ao; Education, Yajen Aier; Health Service, T. Ao; Information and Publicity, G. S. P. Suri; Industry, Dr. Sadgopal.

ORISSA

Bhubaneswar

Administrative Personnel

Governor

Dr. S. S. ANSARI

Chief Minister in charge of Finance, Home, Planning Co-ordination, R. N. Singh Deo.

Deputy Chief Minister in charge of Political and Services and Mining and Geology, Pabitra Mohan Pradhan.

Community Development, Panchayati Raj, Agriculture, Labour, Employment and Housing, Rajballav Mishra.

Revenue, Irrigation and Power, Surendranath Patnaik.

Industries, Commerce, Home, Jails and Reformatories and Public Relations, Education (Text Book Press at Bhubaneswar), Harihar Patel.

Tribal and Rural Welfare, Excise, Santanu Kumar Das.

Supply, Cultural Affairs, Nityananda Mahapatra.

Law and Urban Development, Works and Transport (Engg.), Hara Prasad Mahapatra.

Works and Transport, Dayanidhi Nayak.

Co-operation and Forestry and Agriculture (Animal Husbandry and Fisheries), Murari Prasad Mishra.

Education, Banamali Patnaik.

Deputy Ministers

Revenue, Irrigation and Power, Himansu Sekhar Padhiy; Tribal and Rural Welfare, Manmohan Tudu; Community Development and Panchayati Raj, Ananta Narayan Singh Deo; Finance and Home (Public Relations), Kartick Chandra Majhi; Agriculture, Planning and Co-ordination, Brundaban Tripathy; Health, Home (Jails and Reformatories), Govinda Munda; Co-operative and Forestry, Agriculture (Animal Husbandry and Fisheries), Gangadhar Pradhan.

OFFICIALS

Chief Secretary to Government, A. K. Barren, M.C., I.A.S.; Additional Chief Secretary and Additional Development Commissioner, S. K. Bose; Member, Administrative Tribunal,

P. K. Chakravarti; Secretary, Political and Services Department, A. K. Barren; Secretary, Home Department, B. B. Rath; Secretary, Finance Department, K. S. Bawa; Secretary, Mining and Geology, U. C. Agarwal; Secretary, Education, Anirudha Das; Secretary, Planning and Co-ordination, S. K. Bose; Secretary, L. E. and H., G. N. Das; Secretary, Supply, A. K. Mazumdar; Secretary, Industries, B. R. Patel; Secretary, Health and Family Planning, D. P. Tripathy; Secretary, Commerce, B. R. Patel; Secretary, Revenue and Excise, B. K. Mohanty; Secretary, Works and Transport, C. B. Jain; Secretary, Agriculture and Animal Husbandry, B. C. Tripathy, Secretary, Co-operation and Forestry, C. G. Semiah; Secretary, C.D. and P.R., R. C. Pal Singh; Secretary, Cultural Affairs, Anirudhan Das; Secretary, Transport and Road Works, R. N. Das; Secretary, Irrigation and Power, U. C. Agarwal; Secretary, O.L.A., Nilakantha Rath.

Heads of Departments at Bhubaneswar

Director of Health Services, Dr. P. C. Mohanty; Registrar of Co-operative Societies, A. K. Roy; Inspector General of Prisons, Dr. S. B. Mishra; Director of Agriculture and Food Production, Dr. U. N. Mohanty; Director of Public Relations, P. Tripathy.

Heads of Departments at Cuttack

Directors of Public Instruction, Prof. B. Das, Prof. B. Rath; Director of Animal Husbandry and Veterinary Services, H. S. Bawa; Chief Conservator of Forests, D. N. Choudhury; Director of Fisheries, P. N. Mishra; Director, Bureau of Statistics and Economics, Dr. C. Mishra; Director of Employment, Capt. N. Mohantany; Inspector-General of Police, R. K. Padhi; Chairman, Public Service Commission, Motilal Pandit.

HIGH COURT

Cuttack

Chief Justice, G. K. Mishra; Judges, A. Misra, S. K. Ray, Patra S. Acharya; Registrar, S. K. Patro.

PONDICHERRY

Pondicherry

ADMINISTRATIVE PERSONNEL

Lt.-Governor

B. D. JATTI

MINISTERS

Chief Minister in charge of Confidential, Cabinet and General Administration, Appointments, Finance and Planning, Revenue, Labour, Fisheries, M. O. H. Farook Maricar.

Home, Local Administration, Industries, Jails, Community Development, S. Ramassamy.

Agriculture, Co-operation, Health and Family Planning, Animal Husbandry, V. Kailasa Subbiah.

Education, Food, Law and Harijan Welfare, S. Arumugam.

Public Works, Electricity, Ports, Housing, Social Welfare, D. Ramachandra.

SECRETARIAT

Chief Secretary, Smt. Anjani Dayanand, I.A.S.; Secretary, Health, Education and LA Department, D. K. Jain;

Secretary, Finance Department, P. N. Subramanian; Secretary, Legislative and Judicial Department, G. Gopalakrishnan; Secretary, Revenue and Development Department, G. Sundaram, I.A.S.; Secretary to the Administrator, C. Ramou.

PRINCIPAL OFFICIALS

Inspector-General of Police, S. N. Dey; Director of Public Instruction, J. Ryan; Director of Health and Family Planning, Dr. S. N. Ganapathi; Commissioner of Labour, P. R. Ramanathan; Public Relations Officer, F. C. Antony (In Charge); Director of Industries, Narayana Karta; Director of Agriculture, K. A. Shaikat Ali; Director of Animal Husbandry, Dr. M. A. Swaminathan; Registrar of Co-operative Societies, M. Sriramulu; Director of Statistics and Evaluation, S. Muthu Basavan; Labour Officer, M. S. Kabeer Ahamad; Director of Civil Supplies, M. Kannan; Chief of Judicial Service, Presiding Judge, Superior Court of Appeal, and Principal Sessions Judge, S. Maharajan; Administrator of Karikal, C. D. Dayal; Administrator of Mahe, P. L. Samy; Administrator of Yanam, J. Rayalassamy.

PUNJAB

Chandigarh

ADMINISTRATIVE PERSONNEL

Governor

Dr. D. C. Pavate.

COUNCIL OF MINISTERS

Chief Minister in charge of General Administration including Reorganisation, Home, Vigilance, Elections, Jails, Administration of Justice, Legislative, Transport, Public Relations, Tourism, Cultural Affairs, Health, Medical Education, Forests, Agriculture, Housing, Slum Clearance, Political Sufferers, Community Development, Panchyati Raj, Food and Supplies, Excise and Taxation, Co-operatives, Animal Husbandry, Dairying, Fisheries, Sports and Wild Life Preservation, Gurnam Singh.

Industries, Cottage, Industries, Industrial Training and Industrial Co-operatives, Balaram Das Tandon.

Irrigation and Power, P.W.D. (B. & R.), Public Health, Eng., Rural Electrification, Technical Edn., Architecture, Colonization, Town and Country Planning, Urban Estates, Administration of Sikh Gurdwaras Act, 1925, Education and Languages, Sohan Singh Bassi.

Revenue, Land Reforms, Relief and Rehabilitation, Welfare of Defence Services and Civil Aviation, Atma Singh.

Finance, Planning, Statistics, Small Savings, Labour and Employment, Parliamentary Affairs and Local Government, Krishan Lal.

Printing and Stationery, Social Welfare, Welfare of Scheduled Caste and Backward Classes, Dr. Bhagat Singh.

New Ministers: Balwant Singh, Prakash Singh Badal, Surjit Singh, Manmohan Kalia (Portfolios not announced at the time of going to press).

Ministers of State: Satnam Singh Bajwa, Mohan Singh Tur, Jagdev Singh, Ravel Singh, Ranjit Singh Cheema,

Jiwan Singh Umaranangal (Portfolios not announced at the time of going to press).

SECRETARIES

Financial Commissioner, H. B. Lall, I.A.S. (Revenue); S. S. Grewal, I.A.S. (Development); Chief Secretary, A. N. Kashyap, I.A.S.; Financial and Planning Secretary, K. S. Narang, I.A.S.; Home Secretary, H. S. Chhina, I.A.S.; Secretary, Industries, Industrial Trg., Food and Supplies, Labour, Employment and Printing and Stationery, Mrs. Serla Grewal I.A.S.; Secretary, Education, Languages, Sports, Social Welfare, Welfare of Scheduled Castes and Backward Classes and Cultural Affairs, Daljit Singh, I.A.S.; Secretary, Health and Family Planning, P.W.D.(P.H.) and Irrigation and Power, Technical Edn., Paramjit Singh, I.A.S.; Secretary, Local Government, Housing and Urban Development and Architecture, G. R. Vij, I.A.S.; Secretary, Legislative Dept., Jasmer Singh; Secretary, Excise and Taxation, Rehabilitation and Relief and Resettlement, C. D. Kapur, I.A.S.

HEADS OF DEPARTMENTS

Director, Information, Publicity, Tourism, Hospitality and Cultural Affairs, and Removal of Grievances, Ajit Kumar; Economic and Statistical Adviser, Jagir Singh Sandhu; Director of Panchayats and Community Development, S. S. Parmar; Director of Industries, Banwari Lal Kakker; Director of Food and Supplies, B. B. Mahajan; Inspector-General of Police, Kanwar Shamsher Singh, I.P.S.; Inspector General of Prisons, R. P. Puri; Director of Public Instructions, Goverdhan Lal; Director, Land Reclamation, Irrigation and Power Research Institute, Amritsar, I. P. Kapila; Director, Health Services, Dr. K. Moti Singh; Director, Agriculture, Gursham Singh; Registrar, Co-operative Societies, Kalwant Singh; Director, Social Welfare, Welfare of Schedule Castes and Backward Classes, R. N. Gupta; Director of Technical Education, Kewal Krishan; Provincial Transport Controllers, R. C. Kapila and Hardial Singh Aujla; Chairman, Public Service Commission, Patiala, Kuldip Singh Virk.

HIGH COURT, PUNJAB & HARYANA

Chandigarh

Chief Justice, Mehar Singh; *Puisne Judges*, Harbans Singh, D. K. Mahajan, Shamsheer Bahadur, P. C. Pandit,

Gurdev Singh, Jindra Lal, R. S. Narula, R. S. Sarkaria, H. R. Sodhi, Gopal Singh, B. R. Tuli; *Addl. Judges*, A. D. Koshal, S. S. Sandhawalia, P. C. Jain. *Registrar*, B. L. Nagpal.

RAJASTHAN

Jaipur

ADMINISTRATIVE PERSONNEL**Governor**

HUKAM SINGH

MINISTERS

Chief Minister in Charge of Appointments, General Administration, Political, Cabinet Secretariat, Mohan Lal Sukhadia.

Planning, Finance, Taxation, Excise, Mathurdas Mathur.

Home, Civil Defence, Damodar Lal Vyas.

Industries and Civil Supplies, Mines and State Enterprises, Harideo Joshi.

Labour, Medical and Health, Devasthanam and Bhasha Vibhag, Brij Sunder Sharma.

Revenue, Ex-Soldiers, Ram Kishore Vyas.

Food, Famine Relief, Panchayat Raj and Community Development, Paras Ram Maderma.

Law, Judicial, Legislative Assembly, Waqfs, Linguistic Minorities, Jails and Power, Barkatullah Khan.

Public Works, Printing Presses and Stationery, Aminuddin Ahmed.

Forests, Elections, Economic Survey and Statistics, Narain Singh Masuda.

Agriculture and Colonisation, Shobha Ram.

Local Self Government, Town Planning, Housing, Public Health, Bheekha Bhai.

Irrigation, Rajasthan Canal Project and Transport, Ram Prasad Ladha.

Co-operation, Amrit Lal Yadav.

Education, Shiv Charan Mathur.

Ministers of State

Major Irrigation, Rajasthan Canal, Colonisation, Animal Husbandry, Manphool Singh; *Medical and Health, Public Health, Family Planning*, Smt. Sumitra Singh; *Public Relations, Home and Tourism*, Heera Lal Deepura; *Relief and Rehabilitation, Ayurved and Finance*, Jai Krishna Sharma; *Social Welfare, Finance (Comm. Taxation, etc.)*, *Economic Survey and Statistics*, B. N. Joshi.

Deputy Ministers

Education, Rao Bheer Singh; *Revenue, Famine Relief*, Ganga Ram Chaudhary; *Planning, Power, Jails, etc.*, Khet Singh; *Co-operatives, Food, Elections, Devasthanam*, Ram Deo Singh; *Panchayati Raj*, Smt. Prabha Mishra; *Industries, Mines, Civil Supplies*, Bhim Sen; *Agriculture, Animal Husbandry*, Hari Singh Bagu; *Public Works*, Madho Singh Bhainswara; *Appointment, Gen. Adm. & State Enterprises*, Pradyuman Singh; *Excise, Printing Presses & Stationery*, Shiv Charan Singh; *Forests, Khadi*

and Village Ind., Kanhyya Lal; *Social Welfare and Labour*, Ram Charan; *Transport and Ayurveda*, Samarth Lal; *Colonisation, Taxation*, Brij Prakash Goyal; *Minor and Medium Irrigation*, Jasraj; *Local-Self Government, Town Planning*, Mulk Raj Jhind; *Major Irrigation*, Gurdip Singh.

SECRETARIAT

Chief Secretary, Cabinet, Planning, Statistics, G.A.D., Appointment, etc., R. D. Mathur; *Additional Chief Secretary*, J. S. Jhala, I.A.S.; *Finance Commissioner*, M. Mukarji, I.A.S.; *Commissioner, Home Affairs, Irrigation, Power and P.W.D. (B. & R.)*, Vishnu Dutt Sharma, I.A.S.; *Development Commissioner and Administrative Secretary, Agriculture and Production*, Satya Prasanna Singh Bhandari, I.A.S.; *Secretary, Education, Medical and Health and Labour*, Jagannath Singh Mehta, I.A.S.; *Secretary, Revenue, Forest, Rehabilitation, Colonisation and Devasthanam*, K. L. Baraya, I.A.S.; *Special Secretary, Appointment, Secretariat Administration*, P. K. B. Kurup, I.A.S.; *Special Secretary, Appointments (Rules)*, R. Mukarji, I.A.S.; *Special Secretary, Agriculture, Co-operative and Animal Husbandry*, A. Mohan Lal, I.A.S.; *Secretary, Industries, Civil Supplies and Mines*, Dinesh Kishor Saxena, I.A.S.; *Secretary, Law and Judicial and Legislative and Legal Remembrancer*, Durga Shanker Acharya.

PRINCIPAL OFFICERS

Administrator, Rajasthan Canal Board, Yadav Mohan; *Inspector-General of Police*, Sultan Singh; *Inspector-General of Prisons*, A. S. Ranawata; *Director of Medical and Health Services*, S. C. Mehta; *Director of Animal Husbandry*, G. S. Rathore; *Director of College Education*, R. S. Kapoor; *Additional Director of Primary and Secondary Education*, Hari Mohan Mathur; *Director of Technical Education*, V. G. Garde; *Director of Agriculture*, K. M. Mehta; *Director of Industries*, T. V. Ramanana; *Chief Conservator of Forests*, G. K. Bora; *Labour Commissioner*, N. K. Joshi; *Registrar, Co-operative Societies*, M. M. K. Vali; *Director of Economics and Statistics*, L. K. Verma; *Director of Public Relations*, R. S. Bhatt; *Director of Tourism*, Narain Singh; *Director of Social Welfare*, B. S. Joshi; *Director of Transport*, S. R. Jain; *Director of Employment*, V. D. Sharma; *Chairman, Public Service Commission*, Vivek Marg, Ajmer, R. C. Choudhary.

HIGH COURT

Jodhpur

Chief Justice, Daulat Mal Bhandari; *Judges*: Jagat Narayan, Lakshmi Narayan Chhangani, Chandra Bhan Bhargava, Bhagwati Prasad Beri, Prakash Narain Singhal, Ved Pal Tyagi, Kan Singh, Lehar Singh Mehta (*Addl.*), Chand Mal Lodha (*Addl.*), Sohan Nath Modi (*Addl.*), *Registrar*, S. P. Mehra; *Advocate-General*, Gulab Chand Kasliwal.

TAMIL NADU

Madras

ADMINISTRATIVE PERSONNEL

Governor

Sardar Ujjal Singh

Chief Minister in charge of Public, Gen. Admn., Police, Elections, Food Production, Prohibition, Leg., Inf. & Publicity and Cinematograph Act, M. Karunanidhi.
Education & Health, V. R. Nedunchezian.

Finance, Planning, Revenue, Board of Revenue, Com. Taxes, Indians Overseas, Refugees & Evacuees, K. A. Mathialagan.

Harijan Welfare, Women's & Children's Welfare, Stationery & Printing, Govt. Press, Tourism, Orphanages, Beggars, Approved Schools & Vigilance Services, Thirumathi Satyavanimuthu.

Industries, Textiles, Yarn, Handloom, Mines & Minerals, Iron and Steel Control, Employment & Trg., Companies, Edn. including Tech. Edn., Official Language, Law & Courts, S. Madhavan.

Public Works, Minor Irrigation, Highways and Wags, S. J. Sadiq Pasha.

Municipal Adm., Comm. Development, Panchayats, Bhoodan & Gramdan, Khadi & Village Ind., Rural Ind. Project, Ex-Servicemen, Prosperity Brigade, M. Muthuswamy.

Regn., Passports, Ports, Prisons, Food & Animal Husbandry, Newsprint Control and Prices & Supplies of Goods Act, P. U. Shanmugam.

Co-operation, Transport, Nationalised Transport & Motor Vehicles Tax, S. P. Aditanar.

Religious Endowments, Agriculture, Housing & Accommodation Control, K. V. Subbiah.

Electricity, Forests, Fisheries & Cinchona, Legislation & Money Lending and Legislation on Chits, O. P. Raman. Backward Classes, N. V. Natarajan.

Labour, K. Vezhavendan.

SECRETARIAT, FORT ST. GEORGE, MADRAS 9.

Chief Secretary, C. A. Ramakrishnan.

Secretaries : T. A. S. Balakrishnan (Rural Development and Local Admn.), K. S. Sivasubramaniam (Revenue), M. G. Balasubramaniam (Industries), K. Diraviam (Food), Selvi Anna R. George (Agriculture), G. Ramachandran (Finance), S. Krishnaswamy (Education), N. D. Sundaravadivelu (Chief Educational Adviser), N. Anantha Padmanabhan (Public Health), A. Venkatesan (Home), R. Thinmalai (Public Works), T. S. Ramalingam (Law), V. S. Subbiah (Labour & Housing).

PRINCIPAL OFFICIALS

Director of Agriculture, E. C. P. Prabhakar, I.A.S.; Director of Animal Husbandry, I. Mantramurthy; Registrar of Cooperative Societies, K. S. Narasimhan, I.A.S.; Director of Collegiate Education, V. T. Titus; Director of School Education, M. D. Paul; Director of Information & Publicity, T. V. Vasudevan, I.A.S.; Chief Conservator of Forests, T. Jayadev; Director of Harijan Welfare, P. Sankaran; Director of Industries & Commerce, R. Pasupathi, I.A.S.; Commissioner of H. R. & C. E., A. Radhakrishnan; Commissioner of Labour, M. M. Rajendran, I.A.S.; Director of Health Services & Family Planning, Dr. Selvi A. B. Marikar; Director of State Transport, J. A. Ambasankar, I.A.S.; Inspector General of Police, R. M. Mahadevan, I.P.; Commissioner of Police, P. Kuppuswami, I.P.; Inspector General of Prisons, E. L. Stracey, I.P.; Director of Handlooms, C. Ramachandran, I.A.S.; Director of Statistics, G. D. Nandagopal; Chairman, Union Public Service Commission, Madras 2, J. Sivanandam.

HIGH COURT

Chief Justice, K. Veeraswami.

Judges, K. Srinivasan, P. Ramakrishnan, P. S. Kailasam, R. Sadasivam, K. S. Venkataraman, K. S. Ramamurti, M. Natesan, N. Krishnaswamy Reddy, T. Ramaprasad Rao, A. Alagiriswami, M. M. Ismail, K. N. Mudaliyar, K. S. Palaniswamy, S. Ganesan, P. R. Gokulakrishnan, G. Ramanujam; Registrar, P. Chandrasekhara Menon; Advocate-General, S. Govinda Swaminathan; Sheriff of Madras, Sunderlal Nahata.

RAILWAY SERVICE COMMISSION

Cathedral Road, Madras 6.

Chairman, C. R. Basappa; Secretary, J. Thiagarajan.

SOUTHERN RAILWAY

(General Manager's Office, Park Town, Madras 3).

General Manager, V. T. Narayanan, Senior Dy. General Manager, S. Ramamurthi, Dy. General Manager (General), C. B. Ramakrishna Reddy, Chief Personnel Officer, G. N. Nair, Chief Engineer, T. Komaleswaran, Chief Engineer (Construction), Syed Sirajuddin Gazudraz, Chief Signal & Telecommunication Engineer, E. B. O. McAuliffe, Chief Operating Superintendent, G. S. A. Saldanah, Chief Commercial Superintendent, H. F. Pinto, Chief Mechanical Engineer, E. S. Muthukrishna, Chief Electrical Engineer, D. V. K. Sastry, Financial Adviser & Chief Accounts Officer, A. Sahul Hamid, Chief Security Officer, M. Jai Singh.

TRIPURA

Agartala

ADMINISTRATIVE PERSONNEL

Chief Minister in charge of Home, Agriculture, Industries, P.W.D., Development, Publicity, Statistics etc., Sachindra Lal Singh.

Welfare of Scheduled Castes and Scheduled Tribes, Local Self Government, Raj Prasad Choudhury.

Medical and Public Health and Labour, Tarit Mohan Das Gupta.

Finance and Education, Krishnadas Bhattacharjee.

Jail and Animal Husbandry, Prafulla Kumar Das.

Deputy Minister, Munchor Ali.

Chief Commissioner, D. K. Bhattacharya.

Chief Secretary, I. P. Gupta; Development Commissioner, J. M. Lyngdoh; Secretaries, G. H. Paul (Finance), R. K. Dev Barman (Medical, Public Health and Publicity), A. Datta (Judicial), P. K. Barma (Tripura Legislative Assembly); District Magistrate and Collector, S. M. Kanwar; Judicial Commissioner, C. Jagannadhacharoyulu; District

and Sessions Judge, S. B. Laskar, I.C.P.; G. Majumder; Commandant, Tripura Armed Police, H. K. Dev Verma; Director of Education, Dr. G. N. Chatterjee; Director of Agriculture, K. P. Chakraborty; Director of Industries,

R. P. Sen Gupta; Conservator of Forests, N. C. Bhattacharjee; Registrar of Co-operative and Director of Pan-chayat, S. Sarkar; Public Relations Officer, S. C. Bhattacharyya; Chief Labour Officer, M. M. Dev Barma.

UTTAR PRADESH

Lucknow

ADMINISTRATIVE PERSONNEL

Governor

B. GOPALA REDDY.

MINISTERS

Chief Minister in charge of Home, General Administration, Appointments, Information, Political Pensions, Forests and Excise, Chandra Bhanu Gupta.

Deputy Chief Minister, Irrigation and Power, Kamlapati Tripathi.

Public Works Department and Estates, Girdhari Lal.

Forests, Food and Civil Supplies, Mangla Prasad.

Revenue and Scarcity and Relief and Rehabilitation, Chaturbhuj Sharma.

Agriculture Prodn., Community Development, Cane Development, Animal Husbandry and Fisheries, Dr. Sita Ram.

Finance, Sales Tax, Stamps and Reg., Laxmi Raman Acharya.

Industries and Transport, Shanti Prapanna Sharma.

Education, Ramji Lal Sahayak.

Co-operation, Laxmi Shankar Vadav.

Harijan and Social Welfare, Mrs. Vidyawati Rathore.

Justice, Scientific and Cultural Affairs, Swami Prasad Singh.

Planning, Economics and Statistics, Labour and Pan-chayati Raj, Narain Datt Tewari.

Medical and Public Health, Krishna Nand Rai.

Local Self-Government and Muslim Waqfs, Atiqur Rehman.

Jails, Prantiya Rakshak Dal, Civil Defence and Sports, Ajit Pratap Singh.

SECRETARIAT

Chief Secretary, B. B. Lal, I.C.S.; Finance Secretary, R. K. Trivedi, I.A.S.; Secretary, Irrigation and Power, J. N. Tewari, I.A.S.; Commissioner and Secretary, Home, Jails and Appointments, Confidential and Vigilance, A. K. Mustafi, I.A.S.; Revenue Secretary, Akthar Hussain, I.A.S.; Judicial Secretary and Legal Remembrancer, Prem Prakash; Secretary, Planning, Evaluation and Economic and Statistics, A. R. Sadiqui; Secretary, Food and Civil Supplies, S. S. L. Kakkar, I.A.S.; Secretary, Agriculture, Ram Sahai, I.A.S.; Secretary, Public Works & Transport, Basant Singh Seth, I.A.S.; Secretary, Local Self-Govt.

Relief & Rehabilitation, C. M. Naigam, I.A.S.; Education Secretary, P. C. Pandey, I.A.S.; Medical, P. Health & F. Planning Secretary, Qazi Mukhtar Ahmad, I.A.S.; Secretary, Information, Maheshwar Prasad; Secretary, Forest Dept., H. N. Agrawal; Secretary, Industries & Labour, N. I. Chatterji; Secretary, Excise, R. P. Khosla, I.A.S.; Labour Commissioner, P. N. Kaul, I.A.S.; Inspector-General of Police, Jia Ram, I.P.S.; Director of Education, C. M. Bhatia; Chairman, Public Service Commission, Jagdishwar Prasad Mital; Chairman, Vigilance Commission, Bhagwant Singh.

NORTH-EASTERN RAILWAY

Gorakhpur

General Manager, P. C. Mathew; Dy. General Manager (Vig), D. S. Sethi; Dy. General Manager (G), K. M. Lall, Chief Personnel Officer, S. C. Chatterjee; Chief Public Relations Officer, S. N. Sharma; Chief Engineer, U. H. Mehta; Chief Optg. Superintendent, A. K. Gupta; Transportation Superintendent (Safety), O. C. S. Wragg; Chief Comml. Superintendent, P. K. Anantnarayanan; Chief Mechanical Engineer, C. B. Lal; Financial Advisor and Chief Accountant Officer, R. R. Sud; Chief Signal and Telecommunication Engineer, S. A. Srinivasan; Chief Electrical Engineer, D. S. Mehta; Controller of Stores, S. N. Biswas; Chief Medical Officer, Dr. S. K. Bose; Chief Security Officer, Nag K. Gupta.

RAILWAY SERVICE COMMISSION

19, Sardar Patel Marg, Allahabad 1.

Chairman, N. Y. Manohar; Secretary, Kunwar Bahadur.

HIGH COURT

Allahabad

Chief Justice, V. G. Oak; Judges, Jagdish Sahai; Bishambhar Dayal; Shashi Kant Verma; William Broome, I.C.S.; Dhatri Saran Mathur, I.C.S.; Surendra Narayan Dwivedi; Ram Asray Misra; T. Ramabhadran, I.C.S.; B. D. Gupta; K. B. Asthana; S. N. Katju; G. Kumar; R. S. Pathak; Durgeshwar Dayal Seth, Hamedullah Beg; Gursaran Das Sigal; Shanker Dayal Khare; Gyan Chand Mathur; Gangeshwar Prasad; Satish Chandra; Harish Chand Pati Tripathi; Lakshmi Prasad Nigam; Surendra Narain Singh; Uma Shanker Srivastava; Rameshwar Chandra, Yeshoda Nandan; K. C. Puri; A. K. Kirty; J. S. Trivedi. Addl. Judges, T. P. Mukerjee; R. L. Gulati; R. B. Misra; K. N. Srivastava; G. S. L. Srivastava; B. B. Misra, C. D. Parekh, B. N. R. Lokur, G. P. Trivedi, Hari Swarup, M. N. Shukla; Registrar, R. P. Dikshit; Advocate-General, Shanti Bhushan.

WEST BENGAL

Calcutta

ADMINISTRATIVE PERSONNEL

Governor

S. S. DHAVAN

MINISTERS

Chief Minister in charge of Finance, Political, Defence Branch of Home Department and Social Edn., Ajoy Kumar Mukherjee.

Dy. Chief Minister in charge of Home (Constitution, Elections, Special, Gen. Admn., Police and Press Branches), Jyoti Basu.

Land and Land Revenue, Harekrishna Konar.

Relief and Rehabilitation and Jails, Niranjana Sengupta.

Education, Satya Priya Roy.

Transport, Janab Mohd. Abdulla Rasul.
 Fisheries, Provash Chandra Roy.
 Passport, Civil Defence, Janab Gulam Yazdani.
 Excise, Krishna Chandra Halder.
 Community Development, Charu Mihir Sarkar.
 Forests, Bhabatosh Soren.
 Commerce and Industries, Sushil Kumar Dhara.
 Local Self-Govt., Planning and Development and Housing, Somnath Lahiri.
 Irrigation and Waterways, Biswanath Mookherjee.
 Parliamentary Affairs and Chief Whip, Jatin Chakravarty.
 Public Works, Subodh Banerjee.
 Medical and Public Health, Nani Bhattacharjee.
 Relief, Abdur Razzak Khan.
 Co-operation and Social Welfare, Smt. Renu Chakravarty.*
 Agriculture, Dr. Kanai Lal Bhattacharjee.
 Cottage and Small-scale Industries, Sambhu Charan Ghosh.
 Judicial and Legislative Assembly, Bhakti Bhusan Mondal.
 Labour, Krishnapada Ghosh.
 Panchayats, B. B. Dasgupta.
 Information and Public Relations, Jyotibhushan Bhattacharjee.
 Animal Husbandry and Veterinary Services, Sudhir Chandra Das.
 Schedule Castes and Tribes Welfare, Deo Prakash Rai.

Ministers of State

Roads Development, Miss Pratya Mukherjee; Sports, Ram Chatterjee; Tourism, Barada Mukutmani.*
 Adviser to Govt., R. Gupta.

SECRETARIAT

Chief Secretary, M. M. Basu, I.C.S.; Commissioner for Home Affairs, S. B. Roy; Financial Commissioner, J. L. Kundu, I.A.S.; Commissioner and Ex-Officio Secretary, Refugee, Relief and Rehabilitation Deptt., B. B. Mandal, I.A.S.; Commissioner of Agriculture and Community Development and Ex-Officio Secretary, Agriculture and Community Development, M. C. Mukherjee; Secretary, Commerce and Industries, S. K. Mukherjee; Secretary, Education Deptt., J. C. Sengupta, I.A.S.; Secretary, Deptt. of Health, S. R. Das, I.A.S.; Legal Remembrancer, A. K. Dey; Transport Commissioner and Secretary, Information and Public Relations Department, J. C. Talukdar; Chairman, State Transport Corporation, B. K. Bhattacharya; Commissioner, Animal Husbandry, Fisheries and Veterinary Services, A. K. Sen, I.A.S.; Secretary, Irrigation and Waterways; Co-operation Deptt., A. K. Mazumder, I.A.S.; Member, Board of Revenue and ex-officio Secretary, Land and Land Revenue and Tribal Welfare Deptt., K. Sen, I.C.S.; Secretary, Public Works Deptt., A. M. Kushari; Secretary, Labour Deptt., M. M. Kushari, I.A.S.; Vigilance Commissioner, S. Lahiri; Commissioner, Food, B. R. Gupta; Development Commissioner and Ex-Officio Secretary, Development Deptt., B. C. Ganguly; Secretary, Forests Deptt., S. K. Mukherjee, I.A.S.; Secretary, Relief and Social Welfare, Cottage and Small Industries, J. K. Roy, I.A.S.; Secretary, Commerce and Industries (Durgapur Industries), A. K. Dutta; Secretary, Judicial Deptt., J. K. Pal; Secretary, Legislative Deptt., K. K. Chakravarti.

DEPARTMENTAL OFFICIALS

Inspector-General of Police, S. M. Ghosh, I.P., J.P.; Addl. Inspector-General of Police, M. A. H. Masood, I.P.; Commissioner of Police, P. K. Sen, I.P.; Inspector-General

of Prisoners, S. B. Bhattacharyya; Labour Commissioner and Registrar of Trade Union, A. Chowdhury; Registrar of Co-operative Societies, N. Krishnamurthi; Commissioner, Workmen's Compensation, B. Pal; Chief Conservator of Forests, K. L. Lahiri; Director of Agriculture, Dr. A. K. Dutta; Director of Industries, U. Chatterjee; Director of Public Instruction, P. C. Mukherjee; Director of Information and Public Relations, P. S. Mathur; Director of Fisheries, M. K. Kargupta, I.A.S.; Chairman, Public Service Commission, Anderson House, Calcutta 27, S. M. Bhattacharji.

EASTERN RAILWAY

14/16, Govt. Place East, Calcutta 1.

General Manager, G. P. Warrier; Sr. Dy. General Manager, Vacant; Financial Adviser and Chief Accountants Officer, D. C. Vevaina; Chief Operating Superintendent, B. L. C. Sastri; Chief Commercial Superintendent, V. V. Bhide; Chief Engineer, Kali Charan; Chief Engineer (Cons.), H. K. D. Capoor; Chief Signal and Tel. Com. Engineer, V. Parthasarathy; Chief Personnel Officer, S. B. Zaheer; Controller of Stores, R. K. Tandon; Chief Security Officer, R. N. Sinha; Chief Mechanical Engineer, A. L. Kochhar; Chief Electrical Engineer, N. Padmanabhan; Chief Medical Officer, Dr. J. R. Gadeock; Chief Public Relations Officer, M. N. Radha-Krishnan.

SOUTH-EASTERN RAILWAY

11, Garden Reach Road, Calcutta 43.

General Manager, S. S. Mukherjee; Senior Deputy General Manager, A. K. Sarkar; Financial Adviser and Chief Accountants Officer, B. Bhattacharyya; Financial Adviser and Chief Accounts Officer (Construction), R. Kannan; Chief Operating Superintendent, S. P. Chatterjee; Chief Commercial Superintendent, A. S. Latif; Chief Engineer, P. R. Chopra; Chief Engineer (Construction), S. S. Gobel; Chief Engineer (Project and Development), T. A. Rao; Chief Signal and Telecom. Engineer, P. A. D'Souza; Chief Security Officer, B. K. Roy; Chief Mechanical Engineer, K. L. Berry; Chief Electrical Engineer, T. S. Viswanathan; Chief Personnel Officer, J. N. Roy; Chief Public Relations Officer, S. K. Khanna.

RAILWAY SERVICE COMMISSION

Clem Browne Railway Institute, Sealdah, Calcutta 14.

Chairman, P. C. Vaish; Member-Secretary, S. Waha-buddin Ahmed.

HIGH COURT

Calcutta

Chief Justice, Deep Narayan Sinha, Bar-at-Law; Puisne Judges, Prasanta Bihari Mukharji, Bar-at-Law; Paresh Nath Mookerjee, S. P. Mitra, Purushottam Chatterjee, Amaresh Chandra Ray, Chandra Narayan Laik, Bijayesh Mukherjee, Arun Kumar Mukherjee, R. N. Dutt, A. C. Sen, B. C. Mitra, D. Basu, A. C. Gupta, Syed Sadat Abdul Masud, A. K. Das, A. N. Sen, Sisir Kumar Mukherjee, S. N. Bazhi, A. N. Chakrabarti, S. C. Ghosh, R. M. Datta, N. C. Talukdar, K. L. Roy, S. C. Deb, A. K. Sinha, K. K. Mitra, S. K. Chakravarti, S. Mukharji, T. K. Basu, S. K. Datta; Additional Judges, P. K. Banerjee, B. Banerjee, J. Sarmasarkar, A. K. Basu, A. K. Sen; Advocate-General, S. K. Acharya; Sheriff, Nawab Sir K. G. M. Farouqui; Registrar (Appellate Side), J. C. Chakravarti; Registrar (Original Side), Samiran Sen.

* It is reported that Smt. Renu Chakravarty and Barada Mukutmani will cease to be Ministers from August 24 since they are not members of the legislature and six months will be over by that day with out their being members.

GOVERNMENT OF INDIA PERSONNEL

PRESIDENT

V. V. Giri.

PRESIDENT'S SECRETARIAT

Rashtrapati Bhavan, New Delhi 4.

Secretary, Dr. Nagendra Singh; *Press Secretary*, A. M. Abdul Hamid; *Mily. Secretary & Chief Commandant*, *President's Bodyguard*, Maj.-Gen. Amreek Singh.

VICE-PRESIDENT

G. S. Pathak.

VICE-PRESIDENT'S SECRETARIAT

Secretary to the Vice-President, S. Nilakantan; *Private Secretary*, V. K. S. Iyengar.

MEMBERS OF THE CABINET

Prime Minister, Minister for Finance and Minister of Atomic Energy & Planning, Smt. Indira Gandhi.

Industrial Development, Internal Trade and Company Affairs, Fakhruddin Ali Ahmed.

Home Affairs, Y. B. Chavan.

Labour, Employment and Rehabilitation, Jai Sukh Lal Hathi.

Food, Agriculture, Community Development & Co-operation, Jagjivan Ram.

External Affairs, Dinesh Singh.

Foreign Trade and Supply, Bali Ram Bhagat.

Tourism & Civil Aviation, Dr. Karan Singh.

Law and Social Welfare, P. Govinda Menon.

Steel & Heavy Engineering, C. M. Poonacha.

Education and Youth Services, Prof. V. K. R. V. Rao.

Petroleum & Chemicals and Mines & Metals, Dr. Triguna Sen.

Health and Family Planning and Works, Housing and Urban Development, K. K. Shah.

Railways, Ram Subhag Singh.

Defence, Sardar Swaran Singh.

Information & Broadcasting, and Communications, Satya Narayan Sinha.

MINISTERS OF STATE

Labour, Employment & Rehabilitation, Bhagwat Jha Azad; *Education and Youth Services*, Bhakt Darshan; *Health and Family Planning and Works, Housing and Urban Development*, Dr. S. Chandrasekhar, B. S. Murthy; *Petroleum and Chemicals and Mines and Metals*, D. R. Chavan, Jaganath Rao; *Railways*, Parimal Jhosh; *Law and Deptt. of Social Welfare*, Dr. (Smt.) Phulrenu Guha; *Information and Broadcasting and Deptt. of Communications*, I. K. Gujral, Prof. Sher Singh; *Food, Agriculture, Community Development and Cooperation*, M. S. Gurupadaswamy, Annasaheb P. Shinde; *Defence Production in the Ministry of Defence*, Lalit Narayan Mishra; *Steel and Heavy Engineering*, Krishna Chandra Pant; *Parliamentary Affairs and Shipping and Transport*, K. Raghu Ramaiah; *Irrigation and Power*, Dr. K. L. Rao; *Industrial Development, Internal Trade and Company Affairs*, K. V. Raghunatha Reddy; *Finance*, P. C. Sethi; *Home Affairs*, V. C. Shukla.

DEPUTY MINISTERS

Railways, Roshanlal Chaturvedi; *Food, Agriculture, Community Development and Co-operation*, D. Ering;

Education and Youth Services, Mrs. Jahanara Jaipal Singh; *Labour, Employment and Rehabilitation*, S. C. Jamir; *Defence*, M. R. Krishna; *Tourism and Civil Aviation*, Dr. (Smt.) Sarojini Maihishi; *Steel and Heavy Engineering*, Mohd. Shafi Qureshi; *Finance*, Jagannath Pahadia; *Home Affairs*, K. S. Ramaswamy; *Foreign Trade and Supply*, Chowdhary Ram Sewak; *Law and Department of Social Welfare*, J. B. Muthyal Rao, Mohammad Yunus Saleem; *Attached to the Prime Minister*, Smt. Nandini Satpathy; *Irrigation and Power*, Sidhashwar Prasad; *Industrial Development, Internal Trade and Company Affairs*, Bhanu Prakash Singh; *Department of Parliamentary Affairs and Ministry of Shipping and Transport*, Sardar Iqbal Singh; *External Affairs*, Surendra Pal Singh.

PRIME MINISTER'S SECRETARIAT, NEW DELHI 11.

Secretary to the Prime Minister, P. N. Haksar; *Joint Secretaries*, S. Banerji, G. Ramachandran; *Directors*, K. Natwar Singh, H. Y. Sharada Prasad; *Private Secretaries*, N. K. Seshan (Personal), R. K. Goel (Public), V. P. Marwaha (Special); *Social Secretary*, Miss Usha Bhagat.

CABINET SECRETARIAT

(DEPARTMENT OF CABINET AFFAIRS)

Rashtrapati Bhavan, New Delhi 4.

Secretary to the Cabinet, B. Sivaraman, I.C.S.; *Hon. Statistical Adviser to the Cabinet*, Prof. P. C. Mahalanobis; *Special Commissioner*, G. R. Rajagopal; *Additional Secretary and Chairman, Joint Intelligence Committee*, N. Sahgal, I.C.S.; *Director General of Security*, Balbir Singh; *Additional Secretary to the Cabinet*, R. N. Kao; *Joint Secretary to the Cabinet*, J. S. Mongia.

DEPARTMENT OF STATISTICS

Sardar Patel Bhavan, Parliament Street, New Delhi.

Addl. Secretary, N. Sahgal.

CENTRAL STATISTICAL ORGANIZATION

Director, Dr. Uttam Chand; *Director, Computer Centre*, V. R. Rao.

DIRECTORATE OF NATIONAL SAMPLE SURVEY

Chief Director, Dr. N. T. Mathew.

CENTRAL STATISTICAL ORGANISATION (INDUSTRIAL STATISTICS WING)

1, Council House Street, Calcutta 1.

Joint Director, K. L. Saxena.

RAJYA SABHA SECRETARIAT

Chairman, G. S. Pathak; *Dy. Chairman*, Smt. Violet Alva; *Secretary*, B. N. Banerjee.

LOK SABHA SECRETARIAT

Speaker, G. S. Dhillon; *Deputy Speaker*, R. K. Khadilkar; *Secretary*, S. L. Shakhder.

DEPARTMENT OF ATOMIC ENERGY

Chhatrapati Shivaji Maharaj Marg, Bombay 1.

Minister, Mrs. Indira Gandhi.

Chairman, Atomic Energy Commission, and Secretary to the Government of India, Dr. Vikram A. Sarabhai.

Member for Finance, Dr. I. G. Patel; *Members*, J. R. D. Tata, P. N. Haksar, H. N. Sethna; *Addl. Secretary to Govt.*, R. Bhaktavatsalu; *Joint Secretaries to Govt.*, A. V. Venkateswaran, M. A. Hadi, M. A. Vellodi; *Controller (Adm.)*, S. V. Kulkarni.

Chairman, Rajasthan Atomic Power Project and Director, Power Projects Engg. Dn. and Bhabha Atomic Research Centre, Trombay, Bombay, H. N. Sethna; *Project Administrator, Tarapur Atomic Power Project*, M. N. Chakravarti; *Officer on Special Duty and Joint Secretary, Madras Atomic Power Project*, N. S. Siva; *Geological Adviser, Atomic Minerals Division, New Delhi*, Dr. D. N. Wadia; *Head, Pub. Division*, P. K. Nagarajan. *Editor, Nuclear India*, Jagannath Sharma.

Department of Communications

Minister, Satya Narayan Sinha; *Minister of State*, Prof. Sher Singh; *Secretary*, L. C. Jain, I.C.S.

India Meteorological Department, Headquarters, Lodi Road, New Delhi 3

OFFICE OF THE DIRECTOR-GENERAL OF OBSERVATORIES

Director-General of Observatories, Dr. P. Koteswaram; *Dy. Director-General of Observatories (Adm.)*, K. N. Rao; *Director, Aviation Services*, Dr. U. K. Bose; *Director, Seismology*, Vacant; *Director, N. Hemisphere Analysis Centre*, Dr. P. K. Das.

Dy. Directors-General of Observatories: Dr. A. N. Tandon (*Instruments—New Delhi*), Y. P. Rao (*Forecasting—Meteorological Office, Ganeshkhind Road, Poona 5*), Vacant (*Climatology and Geophysics—Meteorological Office, Ganeshkhind Road, Poona 5*).

Directors: Dr. R. Ananthakrishnan (*Institute of Tropical Meteorology, Ram Drug House, Ganeshkhind Road, Poona 5*), M. Gangopadhyaya (*Agricultural Meteorology, Meteorological Office, Ganeshkhind Road, Poona 5*), Dr. N. Ramalingam (*Regional Meteorological Centre, New Delhi*), N. C. Rai Sircar (*Regional Meteorological Centre, Alipore, Calcutta*), M. Rama Rao (*Regional Meteorological Centre, Bombay*), N. M. Philip (*Regional Meteorological Centre, Madras*), C. R. V. Raman (*Regional Meteorological Centre, Civil Aerodrome, Sonagaon, Nagpur*), B. N. Bhargava (*Colaba and Alibag Observatory, Bombay 5*), Dr. M. K. Vainu Bappu (*Astrophysical Observatory, Kodaikanal*), Miss A. M. Mani (*Instruments, Meteorological Office, Ganeshkhind Road, Poona 5*), *Meteorologist, Central Seismological Observatory, Shillong*, V. P. Kamble.

Posts & Telegraphs Board

Chairman (Ex-Officio), L. C. Jain, I.C.S. (D.G.P. & T.); *Senior Members*, M. Dayal (*Posts*); S. K. Kanjilal (*Telecom. Operations*), S. D. Nargolwala (*Finance*), *Members*, L. K. Narayanaswami (*Admn.*), Madan Kishore (*Banking & Insurance*); K. N. R. Pillai (*Telecom. Development*); *Secretary*, (Vacant).

Heads of Circles

Postmasters-General, S. R. Krishnamurthi (*Maharashtra Circle*); S. R. Bhashyam (*Gujarat Circle*); S. M. Ghosh (*U.P. Circle*); K. V. Srinivasan (*Punjab Circle*); H. K. Rao (*Madras Circle*); S. B. Velankar (*M.P. Circle*); D. N. Ramchandani (*Andhra Circle*); M. B. Sarangapani (*Mysore Circle*); K. R. D. Iyengar (*Assam Circle*); K. I. Bhola (*Bihar Circle*); Vacant (*Kerala Circle*); A. N. Biswas (*W.B. Circle*); Daljinder Singh (*Rajasthan Circle*); C. S. S.

Rao (*Orissa Circle*); *Director of Postal Services (Delhi Circle)*, I. J. Burman; *Director of Posts & Telegraphs*, J. & K., S. K. Roy.

Heads of Administrative Offices

General Manager, Bombay Telephone District, K. D. Vaidya; *General Manager, Calcutta Telephone District*, Rama Kant; *General Manager, Delhi Telephone District*, S. G. K. Reddi; *Additional Chief Engineer, T & D Circle*, S. Krishnan; *General Manager, Rly. Electrification Circle, Calcutta*, Shanti Swarup; *General Manager, Madras Telephone District*, C. J. Clement; *District Manager, Hyderabad Telephone District*, K. L. Reddi; *District Manager, Bangalore Telephone District*, K. Swaminathan; *General Manager, P. & T. Workshops*, B. S. Kulkarni.

Overseas Communications Service

Hqrs. Office.

Industrial Assurance Bldg., Bombay 20.

Director-General, K. M. Balchandani; *Chief Engineer*, B. S. Dutt, *Director (SC)*, R. Parthasarathy; *Dy. Director-General (Traffic)*, (Radio House, Chhatrapati Shivaji Maharaj Marg, Bombay 1), M. J. Gandhi; *Director (Adm.)*, V. P. Pahale; *Directors*: A. E. Husein (C.T.O., Bombay 1), G. Seshadri (*Beam Wireless Station, Dighi, Poona 15*), E. S. Sewjee (*Beam Wireless Stn., Dhond*), P. G. Damle (N. I. C. Bldg., Parliament St., New Delhi), S. Sreenivaschar (Poddar Court, 18, Rabindra Sarani, Calcutta 1), V. N. Basha (Batliboi House, 4th Floor, 98-A, Armenian St., Madras).

DEPARTMENT OF PARLIAMENTARY AFFAIRS

90, Parliament House, New Delhi 2.

Minister, K. Raghuramaiah; *Dy. Minister*, Sardar Iqbal Singh; *Secretary*, H. N. Trivedi.

DEPARTMENT OF SOCIAL WELFARE

Minister, P. Govinda Menon; *Minister of State*, Mrs. Phulrenu Guha; *Dy. Ministers*, J. B. Muthyal Rao, Mohammed Yunus Saleem.

Addl. Secretary, P. P. J. Vaidyanathan; *Director General, Backward Classes Welfare and ex-officio Joint Secretary*, N. Sundaram.

Office of the Commissioner for Scheduled Castes and Scheduled Tribes.

West Block No. 1, Wing No. 7, 1st Floor, Ramakrishnapuram, New Delhi 22.

Commissioner for Scheduled Castes and Scheduled Tribes, Prof. N. K. Bose.

Deputy Commissioners for Scheduled Castes and Scheduled Tribes, Vimal Chandra; O. K. Moorthy.

Central Social Welfare Board, Jeevan Deep Building, Parliament Street, New Delhi

Chairman, Mrs. N. Dogra; *Secretary*, M. A. Soundarajan.

Employees' State Insurance Corporation, ESIC Bldg., Kotla Road, New Delhi.

Director General, T. C. Puri, I.C.S.; *Insurance Commissioner*, S. Narayan; *Medical Commissioner*, Dr. M. J. Bhat; *Director of Administration*, V. A. Mutatkar; *Director (O & M)*, D. D. Sethi; *Administrative Officer*, Harish Chand; *Administrative Officer (M)*, V. Sivaraman; *Director (Medical)*, Maj. Genl. S. S. Maitra.

Regional Offices ESIC Building, 5/1, Grant Lane, Calcutta-12; 136, Peters Road, Madras-14; ESIC Building, Colaba Road, Bombay-5; Ashram Road, Ahmedabad; Kotla Road, New Delhi-1; ESIC Bhawan, Sarvodaya Nagar, Kanpur 5; Brahma Vihar, 5, New Palasia, Indore; 5-9-23, Hill Fort Road, Saijabad, Hyderabad; Hathibabu Ka Bagh, Rly. Station Road, Jaipur; ESIC Bldg., Block, 3, Sector 19-A, Madhya Marg, Chandigarh 19; North Swaraj Road, Trichur; 13, Kumara Park, East Extension, Bangalore; Prasad Mansion, Sarkar Lane, Rajendra Path Patna; E.S.I. Corporation, 10, Cantonment Road, Cuttack; Dr. D. B. Building, Dr. B. Barooa Road, Gauhati.

MINISTRY OF DEFENCE

Minister, Swaran Singh; *Minister of State*, Lalit Narayan Mishra (*Defence Production*); *Secretary*, H. C. Sarin, *Secretary (Defence Production)*, Govind Narain; *Secretary (Defence Supplies)*, G. L. Sheth; *Additional Secretary*, D. R. Kohli; *Joint Secretaries*, M. M. Sen, R. B. Vaghaiwalla, H. T. Sadhwani, N. D. Buch, J. P. Kacker, S. P. Srinivasan, S. M. Agarwal, L. S. Lulla, S. Krishnaswami and M. P. Cariappa.

DEFENCE FORCES

Indian Army

Chief of the Army Staff, Gen. S. H. F. J. Manekshaw, M.C.; *Vice Chief of the Army Staff*, Lt.-Gen. K. S. Katoch, M.C.; *Dy. Chief of the Army Staff*, Lt. Gen. R. S. Noronha; *General Officer Commanding-in-Chief, Eastern Command*, Lt. Gen. J. S. Aurora; *General Officer Commanding-in-Chief, Southern Command*, Lt.-Gen. G. G. Bewoor; *General Officer Commanding-in-Chief, Western Command*, Lt.-Gen. K. P. Candeth; *General Officer Commanding-in-Chief, Central Command*, Lt.-Gen. J. S. Dhillon; *Adjutant-General*, Lt.-Gen. Har Prasad; *Quartermaster-General*, Lt.-Gen. J. K. Khanna; *Master-General of the Ordnance*, Lt.-Gen. K. N. Dubey; *Military Secretary*, Lt.-Gen. Kalyan Singh; *Engineer-in-Chief*, Lt.-Gen. R. A. Loomba; *Signal Officer-in-Chief*, Lt.-Gen. I. D. Verma; *Director of Supplies and Transport*, Lt.-Gen. Ajit Singh; *Director of Ordnance Services*, Lt.-Gen. S. N. Mubayi; *Director of Electrical and Mechanical Engineers*, Lt.-Gen. N. Sen Gupta.

Indian Navy

Chief of the Naval Staff, Admiral A. K. Chatterji, *Vice-Chief of the Naval Staff*, Rear Admiral N. Krishnan, D.S.O.; *Flag Officer Commanding-in-Chief, Western Naval Command*, Vice Admiral S. M. Nanda; *Flag Officer Commanding-in-Chief, Eastern Naval Command*, Rear Admiral K. R. Nair; *Flag Officer Commanding Western Fleet*, Rear Admiral V. A. Kamath; *Commandore Commanding Southern Naval Area*, Commandore Inder Singh; *Chief of Material*, Rear Admiral K. L. Kulkarni; *Chief of Personnel*, Rear Admiral J. Cursetji; *Asstt. Chief of the Naval Staff*, Commandore D. R. Mehta.

Indian Air Force

Chief of Air Staff, Air Chief Marshal P. C. Lal; *Vice Chief of the Air Staff*, Air Marshal Shiv Dev Singh; *Deputy Chief of the Air Staff*, Air Marshal O. P. Mehra; *Air Officer-in-Charge Maintenance*, Air Marshal Y. V. Malshe; *Air Officer-in-Charge Administration*, Vacant; *Air Officer Commanding-in-Chief, Western Air Command*, Air Marshal M. M. Engineer; *Air Officer Commanding-in-Chief, Central Air Command*, Air Vice Marshal H. Moolgavkar, *Air Officer Commanding-in-Chief, Eastern Air Command*, Air Marshal H. N. Chatterjee; *Air Officer Commanding-in-*

Chief, Maintenance Command, Air Vice Marshal H. C. Dewan; *Air Officer Commanding-in-Chief, Training Command*, Air Vice Marshal T. S. Virk.

Directorate-General, Ordnance Factories 6, Esplanade East, Calcutta 1.

Director General, R. M. Muzumdar; *Addl. Directors-General*, Dr. D. P. Chatterjee, S. S. Jauhari, M. M. Thomas.

Directorate General of National Cadet Corps West Block No. 4, Ramakrishnapuram, New Delhi 22

Director-General, Maj.-Gen. D. S. Kalha.

Office of the D.G., A.F.M.S., D.H.Q. P.O., New Delhi 11

Director-General, Armed Forces Medical Services, Lt.-Gen. S. Chatterjee; *Deputy Director General*, Maj.-Gen. K. K. Menon.

Directorate of Public Relations (Ministry of Defence)

D.P.R., B. P. Mathur; *D.D.P.R.*, Colonel V. Longer, *Gp.-Capt. S. R. Mullick*; *A.D.P.R.*, Commander U. Nar-singh.

Hindustan Aeronautics Ltd., Bangalore Division, Bangalore 17.

General Manager, Dr. V. M. Ghatage; *Financial Controller*, N. V. C. Sekariah; *Dy. Gen. Managers*, H. K. Karve (*Aircraft Prodn.*), *Gp. Capt. S. C. Keshu* (*Commercial*).

Institute of Armament Technology, Girinagar POONA 25.

MINISTRY OF EDUCATION & YOUTH SERVICES

Minister, Prof. V. K. R. V. Rao; *Minister of State*, Bhakt Darshan; *Deputy Minister*, Smt. Jahanara Jaipal Singh; *Secretary*, S. Chakravarti; *Secretary to Govt. and D.G., C.S.I.R.*, Dr. Atma Ram; *Additional Secretary*, G. K. Chandiramani; *Joint Secretaries*, Dr. A. M. D. Rozario, Kanti Chaudhuri; *Jt. Educational Advisers*, L. S. Chandrakant, Dr. P. D. Shukla and A. B. Chandiramani; *Director, Planning and Coordination*, Dr. S. N. Saraf; *Adviser on Libraries*, B. S. Kesavan; *Adviser*, J. P. Naik.

Central Board of Secondary Education 17-B, Indraprastha Marg, New Delhi 1

Chairman, L. R. Sethi; *Secretary*, R. P. Singhal; *Dy. Secretary*, B. Mahajan; *Education Officer*: L. N. Agrawal.

National Archives of India, Janpath, New Delhi

Director, K. D. Bhargava.

National Library, Belvedere, Calcutta 27

Librarian, D. R. Kalia.

Dept. of Adult Education
National Institute of Education,
National Council of Educational Research & Training
37, Friends Colony, Mathura Road, New Delhi 14.
Head, T. A. Koshy.

National Fitness Corps Directorate
West Block No. 8, Wing No. 7, First Floor, Rama Krishna Puram, New Delhi-22.

Director-General, P. Dayal, Col. (Retd.); *Director*, Dr. K. V. Varki.

University Grants Commission
University Grants Commission Building,
Bahadur Shah Zaffar Marg, New Delhi-1.

Chairman, Prof. D. S. Kothari; *Secretary*, Dr. P. J. Philip; *Jt. Secretaries*, R. K. Chhabra, Dr. D. Shankar Narayan.

Botanical Survey of India, 14, Madan Street, Calcutta 13.

Director, Dr. S. K. Mukherjee; *Jt. Director*, Dr. K. Subramanyam.

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Anthropological Survey of India, Indian Museum,
27, Jawaharlal Nehru Marg, Calcutta 13.

Director & Anthropological Adviser to the Govt. of India, Dr. D. K. Sen.

Archaeological Survey of India, New Delhi 11.

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Central Office: 'Yogakshema', Madame Cama Road, Bombay 1.

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Director-General of Commercial Intelligence and Statistics, Dr. S. G. Rao ; Dy. Directors-General, J. B. Chakrabarty, A. S. K. V. S. Prakasa Rao, B. N. Roy.

Tariff Commission, Central Govt. Offices Bldgs., 101, Maharshi Karve Road, Bombay 20

Chairman, B. N. Banerjee ; Members, M. Zaheer, S. Subramanian ; Secretary, Dr. P. V. Gunishastri.

Trade Marks Registry, Central Govt. Bldg., Maharshi Karve Road, Bombay

Controller General of Patents, Designs and Trade Marks, Dr. S. Vedaraman ; Jt. Registrar of Trade Marks, V. G. Nair ; Deputy Registrar, M. D. Dhanboora.

Dy. Registrar of Trade Marks, Calcutta, P. Narayanan, Asstt. Registrar of Trade Marks, V. R. Keshavraj (Madras), M. K. Pradhan (Delhi).

Central Silk Board, Meghdoot, 95-B, Marine Drive, Bombay 2

Chairman, Syed Ahmed Mehdi ; Secretary, S. R. Ullal ; Deputy Secretary, (Tech.), A. R. S. Gopalachar ; Special Officer (Tasar), T. S. Sundaramurthy.

All India Handicrafts Board, Block 7 (West) Ramakrishna Puram, New Delhi-22

Chairman, T. N. Singh ; Vice-Chairman, Smt. Kitty Shiva Rao ; Member Secretary & Dev. Commissioner for Handicrafts, S. K. Guha ; Directors of Handicrafts, Ajit Mukharji, Bharat Sahay, D. Sreenivasan.

Directorate General of Supplies and Disposals (Headquarters Office)

N.I. Bldg., Parliament Street, New Delhi

Director-General of Supplies & Disposals, P. C. Bhagat.

ADMINISTRATION BRANCH

Dy. Director-General (Administration), V. Doraiswamy.

SUPPLIES WING

Dy. Directors-General, H. V. Karve (General), N. K. Thadani (Defence).

DIRECTORATE OF SUPPLIES AND DISPOSALS
6, Esplanade East, Calcutta.

Dy. Director-General, J. Maneksha.

DIRECTORATE OF SUPPLIES AND DISPOSALS
Sapt Building, Graham Road, Ballard Estate, Bombay.
Director of Supplies & Disposals, F. W. Stevens.

DIRECTORATE OF SUPPLIES (TEXTILES), 5TH FLOOR, NEW CENTRAL GOVT. OFFICE BLDG., NEW MARINE LINES, BOMBAY.

Director of Supplies (Textiles), S. C. Agarwal.

DIRECTORATE OF SUPPLIES AND DISPOSALS, 35, HADDOWS ROAD, MADRAS 6.

Director of Supplies and Disposals, A. R. Khosla.

DIRECTORATE OF SUPPLIES & DISPOSALS, KANPUR.

Director, P. Chakravarti.

**INSPECTION WING
(HEADQUARTERS OFFICE)**

L.I.C. Bldg., Parliament Street, New Delhi.

Dy. Director-General (Inspection), G. K. Ahuja.

Inspection Circles : 1, Ganesh Chandra Avenue, Calcutta 13; Aayaker Bhavan Annexe, New Marine Lines, Bombay 20; 35, Haddows Road, Madras 6; Jamshedpur 7; Burnpur; 4/286 Nawabganj, Kanpur; Block No. 13, Jamnagar House, New Delhi; Tokyo, Japan (C/o Indian Embassy, Tokyo).

**Printing and Stationery Department, 'B' Wing,
Nirman Bhawan, New Delhi**

Chief Controller of Printing and Stationery, P. N. Sen; Controller of Administration, P. G. Garg; Controller of Printing, R. Ramaswamy.

MINISTRY OF HEALTH, FAMILY PLANNING & WORKS, HOUSING & URBAN DEVELOPMENT

Minister, K. K. Shah; Ministers of State, Dr. S. Chandrasekhar, B. S. Murthy.

DEPARTMENT OF HEALTH & FAMILY PLANNING

Secretary, B. P. Patel; Addl. Secretary, M. G. Pimputkar, Joint Secretaries, R. N. Madhok, Gian Prakash, K. N. Srivastava; Officer on Special Duty: Col. R. D. Ayyar; Honorary Dental Adviser, Col. N. N. Bery; Honorary Adviser in Homeopathy: Dr. K. G. Saxena; Commissioner, Family Planning, Dr. Dipak Bhatia.

DEPARTMENT OF WORKS, HOUSING AND URBAN DEVELOPMENT

Secretary, P. R. Nayak, I.C.S.; Joint Secretaries, B. L. Chak, I.A.S., P. Prabhakar Rao, I.A.S., Kartar Singh, I.A.S.

Directorate-General of Health Services

Director-General of Health Services, Dr. P. K. Duraiswami, Addl. Director-General of Health Services, Dr. J. B. Srivastav; Dy. Directors-General of Health Services, Dr. Y. K. Subrahmanyam (Smallpox), Dr. J. K. Thanawala (Health Adm.), Dr. P. Diesh (Central Govt. Health Scheme).

Advisers, (Tuberculosis), Dr. N. L. Bordia, (V.D.), Dr. R. B. Tampi.

**All-India Institute of Hygiene and Public Health
110, Chittaranjan Avenue, Calcutta 12**

Director, Dr. M. N. Rao; Administrative Officer, A. K. Banerji.

**Central Drugs Laboratory, 3 Kyd Street, Calcutta 16,
Central Research Institute, Kasauli**

Director, Dr. A. K. Thomas; Dy. Director, Dr. A. L. Bhatia; Adm. Officer, J. D. Mehtani.

**Central Drugs Standard Control Organisation,
Ministry of Health, New Delhi**

Drugs Controller, (India), P. S. Ramachandran; Dy. Drugs Controller, Dr. S. S. Gothoskar; Asstt. Drugs Controller, B. L. Naik.

East Zone Office, Calcutta, Drugs Controller, S. H. Merchant; West Zone Office, Bombay, Dy. Drugs Controller, R. Balasubramanyam; North Zone Office, Ghaziabad, Assistant Drugs Controller, Dr. V. A. Moghe; South Zone Office, Madras, Assistant Drugs Controller, Dr. Prem Kumar Gupta.

**All-India Institute of Medical Sciences
Ansari Nagar, New Delhi 16**

Director, Dr. K. L. Wig.

**National Institute for Communicable Diseases
22, Alipore Road, Delhi 6**

Director, Dr. N. G. S. Raghavan; Dy. Directors, Dr. A. K. Krishnaswami, Dr. B. L. Wattal, Dr. Satya Prakash, Dr. D. Subramanyam, Dr. S. Pattanayak, Dr. S. C. Arya, Dr. P. C. Basu (National Filariasis Control Programme).

Southern India Branch, Coonoor; Plague Investigation Fd. Stn., Kolar; Filariasis Trg. Centres, Calicut, Rajahmundry and Varanasi; Pilot Project for the Control of B. Malayi Filariasis in Kerala.

**Central Public Works Department
(Central Office, New Delhi)**

Engineer-in-Chief, M. L. Nanda; Director of Administration, Kailash Prakash; Director of Horticulture, J. B. Mathur.

**Department of Explosives, Old High Court Buildings,
Nagpur**

Chief Inspector of Explosives in India, S. N. Lahiri; Dy. Chief Inspectors of Explosives, S. C. Roy, M. P. Mukherji; Senior Inspectors of Explosives, H. Office, Nagpur, K. Sankaran; South Circle, Madras, I. N. Murthy; East Circle, Calcutta, V. A. Chandrasekharan; West Circle, Bombay, B. N. De; North Circle, Agra, J. K. John.

MINISTRY OF HOME AFFAIRS

Minister, Y. B. Chavan; Minister of State, V. C. Shukla; Dy. Minister, K. S. Ramaswamy; Hindi Adviser, R. D. Sinha 'Dinkar'; Secretary, L. P. Singh, I.C.S.; Secretary (Services), H. Lal; Additional Secretary (UT), M. R. Yardi; Joint Secretary & Establishment Officer, V. Kumar; Joint Secretaries, J. C. Agarwal, Asoka Sen, H. K. R. Capoor, J. M. Lalvani, B. C. Mathur (Dir. of Trg.), A. D. Pande, K. R. Pradhu, T. C. A. Srinivasavardan, R. D. Thapar, Uma Shankar, B. Venkataraman; Central Vigilance Commissioner, S. Dutt.

**Registrar General & Census Commissioner
Kotah House Annexe, 2/A, Mansingh Road, New Delhi 11**

Registrar General & Ex-Officio Census Commissioner, A. Chandrasekhar, I.A.S.; Dy. Registrars-General, P. N. Nayar (Vital Statistics), K. I. Ballal (Census), Dr. B. K. Roy Burman (Social Studies); Admn. Officer, D. N. Krishnamurthy.

**NATIONAL ACADEMY OF ADMINISTRATION,
CHARLEVILLE, MUSSOORIE.**

Director, D. D. Sathe, I.C.S.; Jt. Director, T. N. Chaturvedi, I.A.S.

**CENTRAL BUREAU OF INVESTIGATION,
HEADQUARTERS OFFICE
EAST BLOCK NO. 7, RAMAKRISHNAPURAM,
NEW DELHI 22.**

Director, CBI & IGP, SPE, F. V. Arul, I.P.; Addl. Director, CBI & SPL, IGP, SPE, D. Sen; Jt. Director, CBI & IGP, SPE, P. Kandaswamy, I.P.S.

**Commissioner for Linguistic Minorities
40, Hamilton Road, Allahabad 2**

Commissioner, Smt. M. Chandrasekhar; Dy. Commissioner, G. N. Dike, I.A.S.

**MINISTRY OF INDUSTRIAL DEVELOPMENT,
INTERNAL TRADE AND COMPANY AFFAIRS**

Minister, Fakhruddin Ali Ahmed; Minister of State, K. V. Raghunatha Reddy; Dy. Minister, Bhanu Prakash Singh; Secretary, N. N. Wanchoo; Secretary (HI), N. Subramanyam; Joint Secretaries, R. V. Subramanian, N. J. Kamath, D. R. Sundaram, K. I. Vidyasagar, Rana K. D. N. Singh and K. J. George.

**The Patent Office
214, Lower Circular Road, Calcutta**

Controller General of Patents, Designs & Trade Marks, Dr. S. Vedaraman; Jt. Controller, R. V. Pai.

**Small-Scale Industries, Udyog Bhavan,
Maulana Azad Road, New Delhi 11**

Development Commissioner, K. L. Nanjappa; Joint Development Commissioner, Lal Khama.

**Small Industries Service Institute, Opp. Okhla Industrial
Estate, New Delhi 20**

**Small Industries Service Institute,
Kurla-Andheri Road, Saki Naka, Bombay 72**

**Small Industries Service Institute, 4, Camac Street,
Calcutta 16**

**Small Industries Service Institute,
65-1, Grand Southern Trunk Road, Guindy, Madras 32
Khadi and Village Industries Commission, Irla Road,
Vile Parle (West), Bombay 56**

Chairman, U. N. Dhebar; Vice-Chairman, K. Arunachalam; Member-Secretary, Som Dutt; Member, Maumohan Chaudhary; Financial Adviser, T. M. George; Chief Executive Officer, S. R. Mukerji; Director of Publicity, J. N. Verma.

**Heavy Electricals (India) Limited,
Post Box No. 46, Bhopal**

Chairman & Managing Director, S. Swayambu; General Manager, T. V. Partasarathy; Chief Adm. Officer, Baldev Singh; Commercial Manager, F. Haque; Works Manager, M. S. Padmanabhan; Secretary, R. C. Gupta.

**Hindustan Cables Ltd.,
P.O. Hindustan Cables, Dist. Burdwan, W. Bengal**

Managing Director, I. K. Gupta; Chief Technical Manager, P. Mukundan; Chief Operational Manager, G. D. Saha; Secretary, D. D. Banerjee.

**Hindustan Machine Tools Limited, H.M.T.,
P.O., Bangalore 31**

Chairman & Managing Director, S. M. Patil; General Managers, K. R. S. Gowda (HMT-I & II-Bangalore), P. S. Banerjee (HMT-III PINJORE), V. K. Iyer (HMT-IV-Kalamassery), B. Ramachandra (HMT-V-Hyderabad),

and M. N. Madhav Murty (HMT Watch Factory, Bangalore); Publicity and Public Relations Manager, P. M. Raje.

**Office of the Salt Commissioner,
P. Box No. 139, Jaipur**

Salt Commissioner, K. L. Gambhir; Dy. Salt Commissioner, B. K. Roy.

Deputy Salt Commissioners, C. L. Malhotra (Exchange Bldg., Sprott Road, B. Estate, Bombay 1), S. R. Bose (Sastri Bhavan, P.B. No. 706, Madras 6), Asstt. Salt Commissioner, S. N. Ghosh (13, Lindsay St., 6th fl., Calcutta 16).

**Department of Company Affairs, Shastri Bhavan (5th
Floor), Dr. Rajendra Prasad Road, New Delhi 1**

Secretary, Department of Company Affairs & Chairman, Company Law Board, R. Prasad, I.C.S.; Joint Secretary, Department of Company Affairs & Member, Company Law Board, A. C. Bose; Director of Investigation & Inspection, S. Venkataraman; Director, Research & Statistics, Baldev Datta.

NORTHERN REGION

Regional Director, Kanpur, B. P. Roy; Registrar of Companies, Kanpur, S. C. Bhardwaj; Registrar of Companies, Jullundur, Hari Prasad; Registrar of Companies, Delhi, F. N. Sanyal; Registrar of Companies, Jaipur, P. S. Mathur; Registrar of Companies, Srinagar, Harkaran Singh.

WESTERN REGION

Regional Director, Bombay, M. V. Warerkar; Registrar of Companies, Bombay, S. C. Bafna; Registrar of Companies, Gwalior, R. K. Gupta; Registrar of Companies, Ahmedabad, J. G. Gatha.

EASTERN REGION

Regional Director, Calcutta, P. B. Menon; Registrar of Companies, Calcutta, J. P. Mukherjee; Registrar of Companies, Shillong, N. L. Passi; Registrar of Companies, Cuttack, S. Narayanan; Registrar of Companies, Patna, B. K. Chatterjee.

SOUTHERN REGION

Regional Director, Madras, T. J. Gondhalekar; Registrar of Companies, Madras, S. M. Yousuf; Registrar of Companies, Hyderabad, P. Ranga Rao; Registrar of Companies, Ernakulam, A. G. Sirsi; Registrar of Companies, Bangalore, S. P. Khanna, Registrar of Companies, Pondicherry, N. Krishnamurthi.

MINISTRY OF INFORMATION AND BROADCASTING

Minister, Satya Narayan Sinha; Minister of State, I. K. Gujral; Secretary, K. K. Dass; Registrar of News papers, K. N. Bamzai; Joint Secretaries, A. S. Gill, S. K. Ghose; Director, Publications Division, G. N. S. Raghavan; Director of Field Publicity, Dr. A. R. Baji; Director of Song & Drama Division, Lt. Col. H. V. Gupte.

**DIRECTORATE OF ADVERTISING & VISUAL
PUBLICITY**

B. BLOCK, CURZON ROAD, NEW DELHI 1

Director, Brig. R. Sreenivasan; Joint Director, D. Raghavan; Sr. Dy. Director, R. L. Handa.

**Central Board of Film Censors,
"Bharat Bhuvan," 91, Walkeshwar Road, Bombay 6**

Chairman, M. V. Desai; Regional Officer, K. D. Dixit; Addl. Regional Officer, V. S. Shroff; Regional Office, New A.I.R. Bldgs., Eden Gardens, Calcutta 1; Regional Office, 35, Haddows Road, Madras 6.

Films Division

24, Pedder Road, Bombay 26.

Controller of the Films Division, K. L. Khandpur; Chief Producer, Mohan Wadhvani; Public Relations Officer, H. S. Sarmokadam.

Directorate-General, All-India Radio

Akashwani Bhavan, Parliament Street, New Delhi

Director General, A. K. Sen; Chief Engineer, S. S. Aiyar; Deputy Director General (Comm. Broadcasts & Programmes), Miss. M. Masani; Deputy Director General (Admn.), Bir Bal; Deputy Director General (Inspection), S. N. Murti.

ALL INDIA RADIO STATIONS

Station Directors, K. P. Shungloo (Delhi), P. S. Bhatia (Calcutta), D. N. Dixit (Bombay), S. V. Natarajan (Madras), D. K. Sengupta (Lucknow), S. B. Singh (Patna), Smt. S. R. Venkataraman (Nagpur), U. L. Baruah (Gauhati), S. A. Thakore (Ahmedabad), V. S. Sastry (Trivandrum), M. S. Gopal (Tiruchirappalli), N. L. Chowla (Srinagar), R. C. Rajasekhar (Bangalore), A. K. Das (Cuttack), Mohd. Yusuf (Jaipur), V. Lakshminarasimhan (Kurseong), G. K. Menon (Panaaji), N. Iqbal Singh (Port Blair), S. N. Sivaswamy (Kohima), B. B. Bhonsale (Poona), M. G. Vaidya (Bhopal), S. B. Saharya (Allahabad), K. B. Ramteke (Calicut), R. N. Das (Imphal), G. H. Vyas (Bhuj), M. B. Nagarkar (Indore), Ashfaq Hussain (Vijayawada), V. Balasundaram (Hyderabad), Shailendra Shankar (Jammu), A. N. Kaul (Simla).

Assistant Station Directors, M. A. Khan (Dharwar), B. M. Lal (Ranchi), V. B. Agrawal (Mathura), I. D. Bhalla (Jullundur), P. R. Narasimhan (Station Engineer: holding Charge, Rajkot), D. S. S. Rao (Station Engineer, holding charge,—Pondicherry), P. G. K. Menon (Chandigarh), D. D. Kalia (Dibrugarh), J. D. Baveja (Shillong), A. S. Murti (Jeypore), S. N. Prasad (Pasighat), A. M. Rasheed (Sambalpur) and Director, Central Sales Unit, Bombay: G. P. S. Nayar.

Press Information Bureau

Sastri Bhavan, Dr. Rajendra Prasad Road, New Delhi.

Principal Information Officer, M. L. Bharadwaj; Directors of Public Relations, C. L. Bhardwaj, K. K. Nair, G. Govindan, B. P. Mathur (Defence Wing-South Block); Deputy Principal Information Officers, N. Sethi, B. R. Bowry, Pratap Kapur, G. Trivedi, U. C. Tiwari, V. F. D'Souza, S. A. J. Zaidi.

Bombay Office: (United India Bldg., Sir Pherozshaw Mehta Road, Bombay 1)—Dy. Principal Information Officer: A. Datta Majumdar. Calcutta Office: (A.I.L. Bldg., Eden Gardens, Calcutta 1)—Dy. Principal Information Officer, Madan Gopal. Madras Office: (Shastri Bhavan, Block II, Grd. Flr., 35, Haddows Road, Madras 6)—Dy. Principal Information Officer, G. Venkataraman. OTHER OFFICES: G. T. Road, Opp. Nehru Garden, Jullundur City; First Floor, No. 112-G, Brigade Road, Bangalore; Mayfair Extn. Bldg., 1st Floor, Lal Bagh, Lucknow; Kumari Mandir, Warriam Road, Ernakulam South, Cochin 16; G. N. Bardoloi Road, Silpukhuri, Gauhati 3; No. 3, Cantonment Road, Cuttack 1; Residency Road, Opp. Pratap Park, Srinagar; Brajbansisadan Buddha Marg, Patna 1; G. K. 36/7, Chowk, Varanasi; Theatre Panchsheel Bldg., 1st Floor, Wardha Road, Nagpur; Ruby House, Subhas Marg, C-Scheme, Jaipur; No. 4-1-519, Troop Bazar, Abids Circle, Hyderabad 1; 1st Floor, Akhandanand Hall, Bhadra, Ahmedabad; 1st Floor, Old Municipal Bldg., Bhopal; Chitrakuti, Tilak Road, Poona 9; Jail Road, Jammu; Sreevalsom, 437/12, Opp. A.I.R., Trivandrum.

MINISTRY OF IRRIGATION AND POWER

Minister, Dr. K. L. Rao; Dy. Minister, Siddheshwar Prasad; Secretary, K. P. Mathrani, I.C.S.; Joint Secretary (A), K. G. R. Iyer, I.A.S.; Commissioner for Indus Waters and ex-officio Joint Secretary, P. R. Ahuja.

Central Board of Irrigation and Power, Curzon Road, New Delhi.*Secretary, S. N. Gupta.***Central Water and Power Commission (Water Wing) R. K. Puram, New Delhi 22.**

Chairman, G. A. Narasimha Rao; Members, M. A. Rahman, P. M. Mane; Secretary, R. N. Chawla.

Central Water and Power Commission (Power Wing) Bikaner House, Shahjahan Road, New Delhi.

Vice-Chairman, K. L. Vij; Members, V. Venugopalan (Utilization), Ipe Mathai (Commercial); Directors, C. K. Chandran, K. Mrityunjayan, H. K. Bansal, T. V. Thadani.

OTHER OFFICES: R. K. Puram, New Delhi 22; Jamnagar House, New Delhi; Lenon House, 5, Venkatanarayana Road, Madras 17; Regional Load Survey Offices: 34, Mahim Haldar St., Kalighat, Calcutta 26; 2nd Floor, Kitab Mahal, Dadabhoy Naoroji Road, Bombay 1. Power Research Institute, Bangalore 1; Power Research Institute, Switchgear Developing & Testing Stn., Piplani, Bhopal 1; Steam Power Stn., Trg. Institute, Neyveli (S. India).

Damodar Valley Corporation, Anderson House, Alipore, Calcutta 27.

Chairman, N. E. S. Raghavachari, I.C.S.; General Manager, N. K. Prasad, I.A.S.; Dy. General Manager, J. K. Lahiri, I.A.S.

MINISTRY OF LABOUR, EMPLOYMENT & REHABILITATION**Department of Labour & Employment**

Minister, Jaisukh Lal Hathhi; Minister for State, B. J. Azad; Dy. Minister, S. C. Jamir; Secretary, P. M. Nayak, I.C.S.; Joint Secretaries, Dr. S. T. Merani, I.A.S., T. S. Sankaran, I.A.S.

Department of Rehabilitation

Secretary, V. Nanjappa, I.C.S.; Joint Secretaries, H. K. Tandon, S. K. Bandopadhyaya; Central Director of Rehabilitation, Madras, V. Vaidyanathan; Agricultural Adviser, Dr. A. K. Dutt; Chairman, Board of Rehabilitation, Manubhai Shah; Chairman, Dandakaranya Development Authority, Dr. Mono Mohan Das; Chief Administrator, Dandakaranya Project, Korapur (Orissa), S. C. Roy; Chief Settlement Commissioner & Custodian General of Evacuee Property, H. K. Tandon; Custodian of Deposits, A. G. Vaswani.

Planning Commission**Yojana Bhavan, Parliament Street, New Delhi.**

Chairman, Mrs. Indira Gandhi; Dy. Chairman, Dr. D. R. Gadgil; Members, B. Venkatappiah, R. Venkatraman, Pitamber Pant, Dr. B. D. Nag Chowdhury; Secretary, B. D. Pande; Advisers (Programme Administration) and ex-officio Additional Secretaries, C. S. Ramachandran, S. Vohra, P. K. J. Menon; Joint Secretaries, V. M. Bhide, Saiyid Hamid, S. S. Puri, G. C. Baveja, J. M. Kitchlu; Advisers, K. B. Rao, Dr. Harbans Lal.

Directorate-General of Employment and Training

Shram Bhavan, Rafi Marg, New Delhi-1.

D.G.E. & T. & Joint Secretary, S. K. Mallick, I.C.S.; *Directorate of Employment Exchanges : Directors*, K. B. Sharma, K. T. N. Nambiar (Addl.); *Directorate of Training : Directors*, Col. S. G. Pendse, B. S. Lall.

Coal Mines Provident Fund Commissioner, Dhanbad.

Coal Mines Provident Fund Commissioner, Prakash Chandra.

Dy. Commissioner, R. Kumar; *Regional Commissioners*, S. A. Moiz, O. P. Sharma, S. P. Sharma.

Office of the Central Provident Fund Commissioner, 50, Golf Links, New Delhi 3.

Central Provident Fund Commissioner, P. Sadagopan; *Dy. Provident Fund Commissioner*, P. S. Dhotrekar; *Regional Provident Fund Commissioners*, V. Hemachandra Rao, U. K. Bajpai.

**Labour Bureau
Clerefont, Simla 4.**

Director, K. K. Bhatia.

**Mines
Dhanbad.**

Director-General of Mines Safety, R. G. Deo; *Deputy Director-General*, H. B. Ghose.

Directors of Mines Safety: S. N. Ramanathan (*Safety Standard*), M. Subramanyam (*Mines Development*), S. S. Prasad (*Central Zone, Nagpur*), S. D. Prasad (*N.C.S.M. Dhanbad*), B. M. Bhat (*Southern Zone, Oorgaum*), C. S. Marwaha (*Eastern Zone, Sitarampur*).

**OFFICE OF THE CHIEF LABOUR COMMISSIONER
(C), SHRAM SHAKTI BHAVAN, RAFI MARG,
NEW DELHI-1.**

Chief Labour Commissioner, O. Venkatachalam; *Dy. Chief Labour Commissioners*, R. J. T. D'Mello, S. C. Gupta; *Administrative Officer*, Ajit Chandra; *Regional Labour Commissioner (Verification)*, M. R. Raju.

**INDIAN INSTITUTE OF LABOUR STUDIES B. 1/41
SAFDARJANG DEVELOPMENT AREA, NEW
DELHI-16.**

Director, P. N. Razdan; *Dy. Directors*, S. K. Gokhale, T. R. Malhotra.

Central Board for Workers' Education

1400, West High Court Road, Gokulpeth, Nagpur.

Chairman, Dr. S. T. Merani; *Director*, Dr. M. A. Chansarkar.

Coal-mines & Mica Mines Labour Welfare Fund

Organisation, Jagjivan Nagar, P.O. Dhanbad

Welfare Commissioner, S. N. Pande, I.A.S.; *Dy. Welfare Commissioners*, A. P. Connolly, N. M. Khanwarsi.

Directorate-General of Factory Advice Service & Labour Institutes, Off Eastern Express Highway, Sion, Bombay 22.

Director General, Vacant; *Dy. Director General*, B. J. Ramrakhiani.

CENTRAL LABOUR INSTITUTE

Directors, Dr. M. N. Gupta (*Research*), H. J. Bakru (*Trg.*), P. R. Surendranathan (*Safety Centre*).

Regional Labour Institute, Patipukar, Lake Town, Calcutta-55. *Regional Director*, P. J. Makhijani. *Regional Labour Institute*, Sarvodaya Nagar, Kanpur-4. *Regional Director*, A. K. Chakrabarty. *Regional Labour Institute*, Adyar, Madras-20. *Regional Director*, M. U. Rao.

MINISTRY OF LAW

Minister, P. Govind Menon; *Dy. Ministers*, J. B. Muthyal Rao, Mohd. Yunus Saleem.

DEPARTMENT OF LEGAL AFFAIRS

Secretary, Rustom S. Gao; *Joint Secretaries and Legal Advisers*, G. A. Shah, K. S. Pandalai, S. Balakrishnan, G. Venkatasubramaniam, Anand Swarup Choudhri, P. B. Venkatasubramaniam (*At Branch Secretariat, Calcutta*), P. G. Gokhale (*at Branch Secretariat, Bombay*); *Chairman, Law Commission*, K. V. K. Sundaram.

OTHER OFFICERS

Attorney-General of India, Nirein De; *Solicitor-General of India*, Jagdish Swarup.

LEGISLATIVE DEPARTMENT

Secretary, V. N. Bhatia; *Joint Secretaries & Leg. Counsels*, N. D. P. Namboodiripad, K. K. Sundaram, S. K. Maitra; *Chairman, Official Language (Leg.) Commission*, R. N. Sharma.

Election Commission, Talkatora Road, New Delhi 1.

Chief Election Commissioner, S. P. Sen Verma; *Dy. Election Commissioners*, P. I. Jacob, P. Roy; *Secretaries*, K. S. Rajagopalan, A. N. Sen.

Income-Tax Appellate Tribunal

(HEADQUARTERS, BOMBAY)

Central Govt. Offices Building, 101, Maharshi Karve Road, Bombay 20.

President, P. Sriramulu; *Registrar*, G. N. Jerath.

Branches at: 23-A, Thornhill Road, Allahabad; Shastri Bhavan, Dr. Rajendra Prasad Road, New Delhi; New Income-Tax Building, 22, Nungambakkam High Road, Madras 34; 50-A, Gariahat Road, Calcutta 19; 3-5-900, Himayatnagar, Hyderabad-29; Incometax and Central Excise Bldg., Gardiner Road, Patna-1; Fadia Chambers, 4th Floor, Ashram Road, Ahmedabad; Elengical House, 1/2, Cunningham Road, Bangalore; Satgamaya, XXIII/375-A, Mahatma Gandhi Road, Ernakulam, Cochin-11.

**MINISTRY OF PETROLEUM & CHEMICALS & MINES
& METALS**

Minister, Dr. Triguna Sen; *Ministers of State*, D. R. Chavan, Jaganath Rao; *Secretary*, B. Mukherji; *Joint Secretary, Department of Chemicals*, M. Ramakrishnayya; *Joint Secretary, Department of Petroleum*, M. V. Rajwade.

Oil and Natural Gas Commission

Post Box No. 20, Tel Bhavan, Dehra Dun.

Chairman, L. J. Johnson, I.C.S.; *Chief of Geological Services*, Dr. B. G. Deshpande; *Chief of Vigilance & Control*, Major General P. N. Kirpal; *Director of Administration*, Brig. S. C. Vya; *Director of Stores & Purchase*, Col. K. B. Menon; *Jt. Director of Production*, H. P. Aranha.

Projects: Ankleshvar Project, Ahmedabad Project, Cambay-Navagam Project, Jaisalmer Project, Jodhpur, Mehsana Project, Cauvery Project, Madras, Navagam Project.

Indian Oil Corporation

254-C, Dr. Annie Besant Road, Prabhadevi, Bombay 25.

Chairman, N. N. Kashyap, I.C.S.; *Financial Director*, P. R. Rau; *Public Relations Officer*, B. V. Ranganath; *Secretary*, B. D. Puri.

MARKETING UNIT:—*Managing Director*, Kamaljit Singh; *General Manager*, S. D. Bhambri; *Financial Controller*, B. M. Menon; *Dy. General Managers*, J. C. Goyle, T. Kumaran; *Operations Manager*, M. Lakshmanan; *Commercial Manager*, J. Jayaraman; *Manager, Management Services*, S. B. Budhiraja; *Engineering Manager*, R. M. Basrur; *Chief Technical Engineer*, K. Sitharama Rao; *Planning, Research & Statistics Manager*, R. Gurumurthy; *Materials Manager*, K. Rajgopal; *Manager, Personnel & Administration*, B. K. Bakshi; *Manager, Supply & Distribution*, C. Y. V. Rao; *Branch Manager, Bombay*, M. A. Ananth; *Branch Manager, Calcutta*, J. V. K. Rao; *Branch Manager, Delhi*, B. M. Lal; *Branch Manager, Madras*, D. N. Sharma.

BRANCHES: *Western Branch*: Clarke Road, Mahalaxmi, Bombay 34; *Northern Branch*: Indian Oil Bhavan, New Delhi-1; *Eastern Branch*: "Gagan Tara", 13, Camac Street, Calcutta-16; *Southern Branch*: "Khivraj Mansion", 150A, Mount Road, Madras 2.

REFINERIES DIVISION

Link House, 1st Floor, Mathura Road,
New Delhi-1.

Managing Director, Maj. Gen. Sarda Nand Singh (Retd.); *Financial Controller*, B. M. Prabhu; *Sr. Adm. Officer*, O. P. Sehgal. *Gauhati Office*: Gauhati Refinery, P. O. Noonmati, Gauhati (Assam); *General Manager*, D. L. Purkayastha; *Barauni Office*: Barauni Refinery Project, P.O. Oil Refinery, Dt. Monghyr; *General Manager*, Maj. Gen. Chand N. Dass (Retd.); *Gujarat Refinery*: P.O. Gujarat Refinery, Dist. Baroda; *General Manager*, C. R. Das Gupta.

Indian Drugs & Pharmaceuticals Ltd.

N-13, New Delhi South Extension, Part I,
New Delhi-3.

AT THE HEAD OFFICE: *Chairman & Managing Director*, Vacant; *Financial Adviser & Chief Accounts Officer*, R. K. Chandrasekharan; *Chief Sales Manager*, S. Rajinder Singh; *Chief Engineer*, N. S. P. Chawla; *Secretary*, Vikramajit.

At the Projects

Gen. Manager, Antibiotics Plant, Rishikesh, S. Samadhar; *Gen. Manager, Synthetic Drugs Plant, Hyderabad*, Dr. L. K. Behl; *Gen. Manager, Surgical Instruments Plant, Madras*, Brig. M. A. Nayudu.

THE FERTILIZER CORPORATION OF INDIA LTD.

Head Office—F-43, South Extension Area, Part I, Ring Road, New Delhi-3

Chairman and Managing Director, Satish Chandra; *Secretary*, P. B. Jajodia; *Planning & Development Division*, *Central Technical Organisation, Sindri*, *General Manager*, Dr. K. R. Chakravorty; *Unit—Sindri*, *General Manager*, K. C. Sharma; *Unit—Nangal*, *General Manager*, N. R. Seshadri; *Unit—Trombay*, *General Manager*, Dr. S. K. Mukherjee; *Division—Durgapur*, *General Manager*, R. Hasan; *Division—Gorakhpur*, *General Manager*, B. K. Khanna; *Division—Namrup*, *General Manager*, M. L. Leeka; *Division—Barauni*, *General Manager*, R. S. Kachwaha.

Geological Survey of India, 27, Jawaharlal Nehru Road, Calcutta 13.

Director-General, G. C. Chatterji; *Deputy Director General (Headquarters)*, V. Subramanyam; *Director (Administration)*, J. Swaminathan; *Dy. Directors-General*: D. R. S. Mehta (*Eastern Region—5 Middleton St., Calcutta 16*); M. S. Balasundaram (*Central Region—New Secretariat Bldg., Nagpur 1*); M. K. Roychowdhury (*Northern Region—3, Gokhale Marg, Lucknow*); C. Karunakaran (*Southern Region—6-3-666, Panjagutta, Hyderabad 4*); S. P. Nautiyal (*Western Region—Prithviraj Marg, Jaipur*).

DEPARTMENT OF MINES AND METALS

Secretary, N. C. Shrivastava, I.C.S.; *Joint Secretaries*, N. D. Gupta, I.A.S., T. N. Lakshminarayanan, I.A.S.; *Coal Mining Adviser*, K. S. R. Chari.

Indian Bureau of Mines, Nagpur.

Controller, K. S. Mahapatra; *Regional Controllers of Mines, Nagpur*: P. N. Sinha, Dr. S. C. Singal; *Ajmer*, D. M. Sen; *Calcutta*, G. V. Rao.

Coal Controller**1, Council House Street, Calcutta**

Coal Controller, K. K. Ray; *Dy. Coal Controller (Production)*, G. D. Ghatak.

MINISTRY OF RAILWAYS

Minister, Dr. Ram Subhag Singh; *Minister of State*, Parimal Ghosh; *Deputy Minister*, R. L. Chaturvedi.

Railway Board, New Delhi

Chairman and Ex-Officio Principal Secretary to Government, G. D. Khandelwal; *Financial Commissioner and Ex-Officio Secretary to Govt.*, K. S. Sundara Rajan; *Members and Ex-Officio Secretaries*, B. C. Ganguly (*Staff*), K. C. Sood (*Engg.*), P. Sahai (*Mechanical*), D. U. Rao (*Finance—Accts.*), S. W. Shiveshwarkar (*Dir.-General, Vigilance*). *Addl. Members*: M. T. Lee (*Works*), T. N. Dhar (*Commercial*), R. Gopalakrishna Iyer (*Staff*), K. Vaidyanathan (*Mechanical*). *O.S.D. (Freight Structure)*, J. B. Rao. *Secretary*, C. S. Parameswaran.

Research, Designs & Standards Organisation, Alambagh, Lucknow 5.

Director-General, M. Srinivasan; *Dy. Director General*, A. Sukumaran.

Railway Rates Tribunal

1, Pughs' Road, Madras 28.

Chairman, Gopalji Mehrotra; *Members*, K. S. Somachalam, K. J. Chandy; *Secretary*, V. N. Gopala Desikan.

Chittaranjan Locomotive Works, Post Chittaranjan, District Burdwan, West Bengal.

General Manager, N. N. Tandon; *Chief Mechanical Engineer*, T. C. Chedda; *C.O.S.*, R. R. Rao; *Dy. Genl. Manager*, D. N. Singh; *Public Relations & Estate Officer*, B. D. Kardam.

Integral Coach Factory

Perambur, Madras 38.

General Manager, R. Rajagopalan; *Financial Adviser and Chief Accounts Officer*, M. Sundar Raj; *Chief Mechanical Engineer*, S. C. Misra; *Public Relations Officer*, V. R. Ramanathan.

MINISTRY OF SHIPPING AND TRANSPORT

Minister, K. Raghu Ramaiah; *Dy. Minister*, Sardar Iqbal Singh; *Secretary*, S. K. Datta, I.C.S.; *Jt. Secretary*, Chairman, *Inter-State Transport Commission*, K. Narayanan; *Jt. Secretary*, R. Doraiswamy; *Director-General (Road Development)* and *Addl. Secretary*, S. N. Sinha; *Development Adviser*, R. R. Sukhrani; *Secretary*, *Border Roads Development Board* and *Ex-Officio Joint Secretary*, S. K. Mukherjee; *Chief Controller of Chartering and Ex-Officio Joint Secretary*, E. Kolet; *Director General of Border Roads*, Major-Gen. J. S. Bawa; *Chairman, National Shipping Board*, Raghunatha Narendra Singh Mahida, M.P.

MAJOR PORT AUTHORITIES

Chairman, Calcutta Port Commissioners, N. C. Sen Gupta, I.C.S.; *Chairman, Madras Port Trust*, V. Karthi Keyan, I.A.S.; *Chairman, Bombay Port Trust*, L. M. Nadkarni; *Chairman, Cochin Port Trust*, K. P. K. Menon; *Chairman, Kandla Port Trust*, Commodore S. K. Chatterjee; *Chairman, Visakhapatnam Port Trust*, H. Sambamurti, I.A.S.; *Chairman, Mormugao Port Trust*, V. Srinivasachar, I.A.S.; *Chief Engineer and Administrator, Mangalore Harbour Project*, H. K. Panditaradhy; *Chief Engineer and Administrator, Tuticorin Harbour Project*, P. Sivalingam; *Chairman, Paradeep Port Trust*, P. N. Mohanty, I.A.S.

Directorate General of Shipping,

'Commerce House', Ballard Estate, Bombay.

Director-General of Shipping, K. C. Madappa; *Sr. Director-General of Shipping*, Y. S. Kasbekar; *Deputy Directors-General of Shipping*, T. K. Sarangan, N. K. Gopalan Nair, P. N. Anand, D. N. Phull.

TECHNICAL OFFICERS

Nautical Adviser to the Government of India, Capt. G. S. Singh; *Chief Surveyor with the Government of India*, B. K. Gupta.

LAL BAHADUR SHASTRI

NAUTICAL & ENGINEERING COLLEGE

Hay Bunder, Tank Road, Bombay 33.

Principal, Capt. P. Alexander

DIRECTORATE OF MARINE ENGINEERING TRAINING

P. 19, Taratolla Road, Calcutta, 53.

Branch: Hay Bunder, Tank Road, Bombay 33.

Director, T. K. T. Srisailam.

MERCANTILE MARINE DEPARTMENT

Central Govt. Offices Bldg., South Wing, Queen's Road, Bombay 1.

Principal Officer, Registrar of Indian Ships and Chairman, Deck Passenger Welfare Committee, T. Berry; *Other Offices*: CALCUTTA: Marine House, Hastings, Calcutta 22. MADRAS—Old High Court Bldgs., Madras. VISAKHAPATNAM. COCHIN. JAMNAGAR: "Tej Prakash Bhuvan", Pandit Nehru Road, Jamnagar. PANAJI & MORMUGAO, GOA.

DECK PASSENGER WELFARE OFFICE

Welfare Officer, Vacant.

SEAMEN'S WELFARE OFFICE

Nou Bhavan, Nicol Road, Ballard Estate, Bombay.

Principal Seamen's Welfare Officer, B. K. Shroff; CALCUTTA—Marine House, Hastings, Calcutta 22; *Princi-*

pal Seamen's Welfare Officer, N. C. Trivedi; MADRAS—Old High Court Bldg., Madras 1; *Seaman's Welfare Officer*, V. Ranganathan.

Lighthouse and Lightships Department

East Block X, Level IV, Ramakrishnapuram, New Delhi 22.

Director General of Lighthouses & Lightships and Chief Inspector of Lighthouses in India, Commodore G. S. Kapoor, I.N.

Executive Engineer & Professional Assistant to the Director General of Lighthouses & Lightships, E. U. Rao; *Administrative Officer*, C. V. S. Murty; *Directors of Lighthouses and Lightships*, N. R. Gopalswami (Madras), Muralidhar Basu (Bombay), B. R. Karnik (Calcutta), C. V. Chaubal (Port Blair), J. N. Mankad (Jamnagar), K. V. Mohan Rao (Panaji).

COMMISSION OF RAILWAY SAFETY

B-125, Nirala Nagar, Lucknow.

Commissioner of Railway Safety, P. B. Aibara; *Dy. Commissioners*, P. M. N. Murthy (Hqrs.), S. S. Lall (S. & T.), C. S. P. Sastry (E. & T.); *Additional Commissioners*: P. B. Aibara (W. Circle—Bombay), G. S. Pandor (N. E. Circle—Calcutta), Arya Bhushan (S. E. Circle—Calcutta), C. R. Sule (N. Circle—Lucknow), H. S. Hart (S. Circle—Bangalore).

MINISTRY OF STEEL & HEAVY ENGINEERING

Minister, C. M. Poonacha; *Minister of State*, K. C. Pant; *Dy. Minister*, Mohd. Shafi Qureshi; *Secretary*, R. C. Dutt; *Spcl. Secretary*, E. N. Mangat Rai. *Joint Secretaries*, P. Sabanayagam, O. N. Mishra. *Directors*, R. K. Shastri, J. C. Luther. *Sr. Industrial Adviser*, Hari Bhushan.

Hindustan Steel Ltd.,

P.O. Hinoo, Ranchi 2, Bihar State.

Chairman, K. T. Chandy; *Deputy Chairman*, A. N. Banerji; *General Managers*: G. Jagathpathi (Bhilai Steel Plant); R. P. Sinha (Rourkela Steel Plant); H. Bhaya, (Alloy Steel Plant); C. S. N. Raju (Central Coal Washeries); *Director-Incharge*: Maj. Gen. B. P. Wadhera (Durgapur Steel Plant); *Secretary*: C. V. S. Mani; *Public Relations Officer*: M. S. Srinivasan.

Iron & Steel Control Organisation, 33, Netaji Subhas Road, Calcutta

Iron and Steel Controller, S. Sahay; *Dy. Iron & Steel Controllers*, S. C. Mukherjee, P. R. Nair.

MINISTRY OF TOURISM & CIVIL AVIATION

Sardar Patel Bhavan, Parliament Street, New Delhi.

Minister, Dr. Karan Singh; *Dy. Minister*, Dr. (Shrimati) Sarojini Mahishi; *Secretary*, A. Mitra; *Joint Secretary*, N. Khosla; *Director-General of Civil Aviation*, G. C. Arya; *Deputy Directors-General*, C. R. Rao, S. Ramamrithan, B. S. Gidwani; *India's Representative on the Council of the I.C.A.O., Montreal*, B. M. Gupta.

AIR ROUTES AND AERODROMES ORGANIZATION

Controllers of Aerodromes, S. G. Deshpande (Bombay); Joginder Singh (Madras); J. N. Dhar (New Delhi); P. K. Ramachandran (Dum Dum).

SUPREME COURT OF INDIA

Tilak Marg, New Delhi

Chief Justice of India, M. Hidayatullah ; *Judges*, Justice J. C. Shah ; Justice S. M. Sikri ; Justice V. Ramaswami ; Justice J. M. Shelat ; Justice V. Bhargava ; Justice G. K. Mitter ; Justice C. A. Vaidialingam ; Justice K. S. Hegde ; Justice A. N. Grover ; Justice Ajit Narayan Ray ; Justice Jagan Mohan Pingle Reddy ; Justice Inder Dev Dua.

Registrar, Y. D. Desai.

UNION PUBLIC SERVICE COMMISSION

Dholpur House, P. Box 186, Shahjahan Road, New Delhi 4

Chairman, K. R. Damle ; *Members*, Smt. B. Khongmen, R. C. S. Sarkar, Hari Sharma, Dr. A. R. Kidwai, Maj. Gen. P. C. Gupta, Dr. M. L. Shahare, D. P. Kohli ; *Secretary*, Rajendra Lal.

INDIAN EMBASSIES ABROAD

EMBASSIES

AFGHANISTAN : *Ambassador* : A. N. Mehta. *Address* : Embassy of India, Malai Wat, Kabul.

ALGERIA : *Ambassador* : Mohammed Yunus. *Address* : Embassy of India, 119 ter, Rue Didouche Maurad, Algiers.

ARGENTINA : *Ambassador* (also *Ambassador* to Paraguay and *Ambassador* to Uruguay) : B. K. Sanyal. *Address* : Embassy of India, Lavallo 42 (5th Floor), Buenos Aires.

AUSTRIA : *Ambassador* : V. C. Trivedi. *Address* : Embassy of India, 1, Opernring, Vienna 1.

BELGIUM : *Ambassador* (concurrently *Ambassador* to Luxembourg) : T. Swaminathan*. *Address* : Embassy of India, 121, Avenue Moliere, Brussels 18.

BOLIVIA : *Ambassador* (concurrently *Ambassador* to Brazil and Venezuela, S. V. Patel. Resident in Rio de Janeiro.

BRAZIL : *Ambassador* (also *Ambassador* to Bolivia & Venezuela) : S. V. Patel. *Address* : Embassy of India, Rua Barao de Flamengo 22, Aptos 801-802, Rio de Janeiro.

BULGARIA : *Ambassador* (also *Ambassador* to Rumania) : Thiruvengada Than. Resident in Bucharest.

BURMA : *Ambassador* : Baleshwar Prasad. *Address* : Embassy of India, Oriental Assurance Bldgs., 545-47, Merchant Street, Rangoon.

BURUNDI (Kingdom of) : *Ambassador* (also *Ambassador* to the Republic of Rwanda & High Commissioner to Uganda) : R. R. Sinha. Resident in Kampala.

CAMBODIA : *Ambassador* : Dr. S. Gupta. *Address* : Embassy of India, Phnom Penh.

CAMEROUN & DAHOMEY REPUBLICS : *Ambassador* (also *Ambassador* to Togo & High Commissioner to Nigeria) : S. G. Ramachandran. Resident in Lagos.

CHILE : *Ambassador* (concurrently *Ambassador* to Colombia & Peru) : K. L. Mehta. *Address* : Embassy of India, 871, Triana, Santiago.

CHINA : *Minister & Charge-d'affaires* : B. C. Mishra. *Address* : Embassy of India, 8, Kwang Hua Lu, Peking.

COLOMBIA : *Ambassador* (also *Ambassador* to Chile & Peru) : K. L. Mehta. Resident in Santiago (Chile).

CONGO : *Ambassador* (also *Ambassador* to Gabon & Congo-Brazzaville) : Surendra Singh of Alirajpur. *Address* : Embassy of India, 18, Avenue 8 eme Armees, Leopoldville.

COSTA RICA : *Ambassador* : V. K. Ahuja. *Address* : Resident in New York (Consulate-General India, New York).

CUBA : *Ambassador* (concurrently *Ambassador* to Panama and Mexico) B. K. Massand. Resident in Mexico City.

CZECHOSLOVAKIA : *Ambassador* : J. N. Dhamija. *Address* : Embassy of India, Valdstejska 6, Prague 1.

DENMARK : *Ambassador* : M. R. Thadani. *Address* : Embassy of India, 8-11, Amergertorv, Copenhagen.

ETHIOPIA : *Ambassador* : O. V. Alagesan. *Address* : P.O. 528, Addis Ababa.

FINLAND : *Ambassador* : C. J. Stracey. *Address* : Embassy of India, Kansakoulukatu, 5 B 14, Helsinki 10.

FRANCE : *Ambassador* : D. N. Chatterjee. *Address* : Embassy of India, 15, Rue Alfred Dehodencq, Paris, 16.

GABON : *Ambassador* (also *Ambassador* to Congo & Brazzaville-Congo) : Surendra Singh of Alirajpur. Resident in Leopoldville.

GERMANY (Federal Republic of) : *Ambassador* : Khub Chand. *Address* : Embassy of India, 262, Adenaurallee, Bonn.

GREECE : *Ambassador* (also *Ambassador* to Yugoslavia) : Rikhi Jaipal, Resident in Belgrade.

GUINEA : *Ambassador* (also *Ambassador* to Mali) : Thomas Abraham. *Address* : Embassy of India, Conakry.

HUNGARY : *Ambassador* : Dr. S. Sinha. *Address* : Embassy of India, Buzavirag Utea 14, Budapest II.

INDONESIA : *Ambassador* : K. M. Kannampilly. *Address* : Embassy of India, P. Box No. 118, 44 Kebon Serih, Djakarta.

IRAN : *Ambassador* : M. A. Rahman. *Address* : Embassy of India, 3589/7, Avenue Saba Shomali, Tehran.

IRAQ : *Ambassador* : Mahboob Ahmed. *Address* : 22/12AI, Tahari Street, Waziriah, Baghdad.

IRELAND : *Ambassador* : R. G. Meneses. *Address* : 58, Upper Leeson Street, Dublin.

ITALY : *Ambassador* (also High Commissioner to Malta) : J. K. Atal. *Address* : Embassy of India, via Francesco Dense, 36, Rome.

IVORY COAST : *Ambassador* (also *Ambassador* to Senegal, Mauritania & Upper Volta & High Commissioner to Gambia) : G. J. Malik. Resident in Dakar.

JAPAN : *Ambassador* : S. K. Banerji. *Address* : Embassy of India, No. 2, 2-Chome, Kudan, Minami Chiyodaku, Tokyo.

JORDAN : *Ambassador* (also *Ambassador* to Lebanon and High Commissioner to Cyprus) : A. K. Dar. Resident in Beirut.

KUWAIT : *Ambassador* : S. K. Chowdhry*. *Address* : Embassy of India, King Road No. 1, Kuwait.

LAOS : *Ambassador* : Vacant. *Address* : Indian Embassy, P.O. Box No. 225, Vientiane.

* @ Ambassador's Jurisdiction extends to Bahrain, Dubai & Muscat. Economic, Financial and Commercial Affairs, and is also accredited to the European Economic Community and the European Coal and Steel Community.

LEBANON: *Ambassador* (also Ambassador to Jordan and High Commissioner to Cyprus): A. K. Dar. *Address:* Embassy of India, Sahamarani Bldg., 31, Kantari St., Beirut.

LIBERIA: *Ambassador* (also High Commissioner to Ghana and Sierra Leone): A. S. Mehta. Resident in Accra.

LIBYA: *Ambassador* (also Ambassador to U.A.R. & Yemen): I. J. Bahadur Singh. Resident in Cairo.

LUXEMBOURG: *Ambassador* (also Ambassador to Belgium): T. Swaminathan. Resident in Brussels.

MALAGASY: *Ambassador:* A. R. Sethi. *Address:* P.O. Box 1787, Tananarive.

MALI: *Ambassador* (also Ambassador to Guinea): Thomas Abraham. Resident in Conakry.

MAURITANIA: *Ambassador* (also Ambassador to Senegal, Ivory Coast and Upper Volta and High Commissioner to Gambia): G. J. Malik. Resident in Dakar.

MEXICO: *Ambassador* (also Ambassador to Cuba & Panama): B. K. Massand. *Address:* Embassy of India, Avenida, Tennyson, 67 Col. Polango, Mexico 5, D.F. *Station:* Mexico City.

MONGOLIA: *Ambassador* (also Ambassador to U.S.S.R.): D. P. Dhar. Resident in Moscow.

MOROCCO: *Ambassador* (also Ambassador to Tunisia): Gurbachan Singh. 11, Rue Descartes, Rabat. *Station:* Rabat.

NEPAL: *Ambassador:* Raj Bahadur. *Address:* Embassy of India, G.P.O. Box 292, Kathmandu.

NETHERLANDS: *Ambassador:* Vacant. *Address:* Embassy of India, Buitenrustweg 2, The Hague.

NORWAY: *Ambassador:* J. K. Ganju. *Address:* Embassy of India, 48, Professor Dahls Gate, Oslo.

PANAMA: *Ambassador* (also Ambassador to Cuba & Mexico): B. K. Massand. Resident in Mexico City.

PARAGUAY: *Ambassador* (also Ambassador to Argentina and Ambassador to Uruguay): B. K. Sanyal. Resident in Buenos Aires.

PERU: *Ambassador* (also Ambassador to Chile and Columbia): K. L. Mehta. Resident in Santiago.

PHILIPPINES: *Ambassador:* B. Deva Rao. *Address:* Embassy of India, 1856, B. Bocobo Street, Malate, Manila.

POLAND: *Ambassador:* V. M. M. Nair. *Address:* Embassy of India, No. 16, Niegolewskiego, Warsaw.

RUMANIA: *Ambassador* (also Ambassador to Bulgaria): Thiruvengada Than. *Address:* Alea Alexandru, 41 Bucharest 3.

RWANDA (Republic of): *Ambassador* (also Ambassador to the Kingdom of Burundi & High Commissioner to Uganda): R. R. Sinha. Resident in Kampala.

SAUDI ARABIA: *Ambassador:* T. P. Abdullah. *Address:* Embassy of India, Sulaiman-Al-Turkey House, Al Sharafia, Boghdadia, Jeddah.

SENEGAL: *Ambassador* (also Ambassador to Ivory Coast, Mauritania & Upper Volta & High Commissioner to Gambia): G. J. Malik. *Address:* Embassy of India, P. Box 398, Dakar.

SOMALIA: *Ambassador:* Muni Lal. *Address:* Embassy of India, P. Box 955, Mogadishu.

SOUTHERN YEMEN (Republic of): *Ambassador:* S. H. Desai. *Address:* Embassy of India, Aden.

SPAIN: *Ambassador:* S. Bikram Shah. *Address:* Calle Marques de Urquijo, Madrid.

SUDAN: *Ambassador:* K. L. Dalal. *Address:* P. Box No. 707, Khartoum.

SWEDEN: *Ambassador:* P. R. S. Mani. *Address:* Embassy of India, V. Tradgardsgatan 15, Stockholm.

SWITZERLAND: *Ambassador* (concurrently accredited as Ambassador to the Vatican): M. Azim Husain. *Address:* Embassy of India, 20, Kalcheggweg, 3000 Berne.

SYRIAN ARAB REPUBLIC: *Ambassador:* V. A. Kidwai. *Address:* Embassy of India, 40/46, Yasin Nuwai Lati Bldg., Avenue Adnan Malka Imm., Damascus.

THAILAND: *Ambassador:* Dr. P. K. Banerjee. *Address:* Embassy of India, 139, Pan Road, Bangkok.

TOGO: *Ambassador* (also Ambassador to Cameroun and Dahomey Republics and High Commissioner to Nigeria): S. G. Ramachandran. *Address:* Embassy of India, Lome. Resident in Lagos.

TUNISIA: *Ambassador* (also Ambassador to Morocco): Gurbachan Singh. Resident in Rabat, Morocco.

TURKEY: *Ambassador:* U. S. Bajpai. *Address:* Embassy of India, No. 50, Kizilirmak Sokak, Kocatepe, Ankara.

UNITED ARAB REPUBLIC: *Ambassador* (concurrently Ambassador to Libya & Yemen): I. J. Bahadur Singh. *Address:* Embassy of India, 5, El Sharia El Maahad, Swissri, Zamalak, P.O. Box 718, Cairo.

UNITED STATES OF AMERICA: *Ambassador:* Nawab Ali Yavar Jung Bahadur. *Address:* Embassy of India, 2107 Massachusetts Avenue, N. W. Washington 8, D. C.

UPPER VOLTA: *Ambassador* (also Ambassador to Senegal, Mauritania and Ivory Coast & High Commissioner to Gambia): G. J. Malik. Resident in Dakar.

URUGUAY: *Ambassador* (also Ambassador to Argentina and Paraguay): B. K. Sanyal. Resident in Buenos Aires.

U.S.S.R.: *Ambassador* (concurrently accredited as Ambassador to Mongolia): D. P. Dhar. *Address:* Embassy of India, Nos. 6 and 8, Ulitsa Obuka, Moscow.

VATICAN: *Ambassador* (concurrently accredited as Ambassador to Switzerland): M. Azim Hussain. Resident in Berne.

VENEZUELA: *Ambassador* (concurrently accredited as Ambassador to Brazil & Bolivia): S. V. Patel. Resident in Rio de Janeiro.

YEMEN: *Ambassador* (also Ambassador to U.A.R. and Libya): I. J. Bahadur Singh. Resident in Cairo.

YUGOSLAVIA: *Ambassador* (concurrently accredited as Ambassador to Greece): Rikhi Jaipal. *Address:* Embassy of India, Proleter Skeh Brigade 9, Belgrade.

HIGH COMMISSIONS

AUSTRALIA: *High Commissioner:* A. M. Thomas. *Address:* 63, Mugga Way, Red Hill, Canberra. *Dy. High Commissioner,* R. Axel Khan (Caltex House, 10th floor, 167-187 Kent St., Sydney).

CANADA: *High Commissioner:* A. B. Bhadkamkar. *Address:* 200, McLaren Street, Ottawa 4, Ontario.

CEYLON: *High Commissioner:* Y. K. Puri. *Address:* 7, Kollupitiya Station Road, Colombo-3. *Asstt. High Commissioner,* A. K. Budhiraja (72, Peradeniya Road, Kandy).

CYPRUS: *High Commissioner* (also Ambassador to Jordan and Lebanon): A. K. Dar. Resident in Beirut.

† Also Ambassador to Maldives.

@ Also Consul-General to Comores & Reunion Islands.

GAMBIA: *High Commissioner* (also Ambassador to Senegal, Ivory Coast, Mauritania & Upper Volta): G. J. Malik. Resident in Dakar.

GHANA: *High Commissioner* (also Ambassador to Liberia and High Commissioner to Sierra Leone): A. S. Mehta. Address: P. Box 3040, Accra.

GUYANA: *High Commissioner:* S. J. Wilfred. Address: 78, Church Street, George Town.

JAMAICA: *High Commissioner* (also High Commissioner to Trinidad & Tobago & Consul-General to Surinam): L. N. Ray. Resident in Port of Spain.

KENYA: *High Commissioner:* Avtar Singh. Address: Jeevan Bharati Bldg., Harambee Avenue, Nairobi.

MALAWI: *High Commissioner:* M. M. Khurana. Address: High Commission of India, P. Box No. 398, Blantyre.

MALAYSIA: *High Commissioner:* K. Chandrasekharan Nair. Address: P. Box No. 59, 19, Malacca St., Kuala Lumpur.

MALTA: *High Commissioner* (concurrently Ambassador to Italy): J. K. Atal. Resident in Rome.

MAURITIUS: *High Commissioner:* D. S. Kamtekar. Address: Fere Felix de Valois Street, Port Louis, Mauritius.

NEW ZEALAND: *High Commissioner:* P. S. Naskar. Address: 49, Willis Street, Wellington. Station: Wellington.

NIGERIA: *High Commissioner* (also Ambassador to Cameroun, Dahomey and Togo Republics): S. G. Ramachandran. Address: Private Mail Bag 2322, Lagos, Nigeria.

PAKISTAN: *High Commissioner:* B. K. Acharya. Address: High Commission of India, 482-F, Sector G-6/4, Islamabad. *Dy. High Commissioner,* U. S. Bajpai, India House, 3, Bonus Road, Karachi. *Dy. High Commissioner:* P. K. Guha. Address: 6/3, Topkhana Road, Segun Begicha, Dacca.

SIERRA LEONE: *High Commissioner* (also High Commissioner to Ghana and Ambassador to Liberia): A. S. Mehta. Resident in Accra.

SINGAPORE: *High Commissioner:* Prem Bhatia. Address: India House, 31, Grange Road, Singapore.

TANZANIA: *High Commissioner:* V. C. Vijaya Raghavan. Address: 28, Independence Avenue, Dar-es-Salaam.

TRINIDAD & TOBAGO: *High Commissioner* (concurrently accredited as High Commissioner to Jamaica, Barbados, Antigua, Grenada, Dominica, St. Kitts, St. Lucia, St. Vincent, Anguilla, and as Consul-General to Surinam): L. N. Ray. Address: P. Box No. 530, Port of Spain (Trinidad).

UGANDA: *High Commissioner* (also Ambassador to the Kingdom of Burundi & Republic of Rwanda): R. R. Sinha. Address: Bank of India Bldg., Kampala Road, Kampala.

UNITED KINGDOM: *High Commissioner:* A. B. Pant, *Deputy High Commissioner:* P. N. Kaul. Address: India House, Aldwych, London, W.C. 2.

ZAMBIA: *High Commissioner:* J. C. Kakar. Address: High Commission of India, P.O. Box 2111, Lusaka.

SPECIAL MISSIONS

BHUTAN: *Political Officer* (also Political Officer in Sikkim): N. B. Menon. Address: Resident in Gangtok.

(a) **VIETNAM (South):** *Chairman and Leader of Indian Delegation:* K. P. Lukose. Address: International Commission for Supervision and Control in Indo-China, Saigon.

(b) **CAMBODIA:** *Chairman, I.C.S.C., and Leader, Indian Delegation,* Vacant. Address: International Commission for Supervision and Control in Indo-China, Phnom Penh.

(c) **LAOS:** *Chairman, I.C.S.C., and Leader of Indian Delegation:* Dharam Deva. Address: International Commission for Supervision and Control in Indo-China, Vientiane.

SIKKIM: *Political Officer in Sikkim* (also Political Officer in Bhutan): N. B. Menon. Address: Gangtok via Siliguri (West Bengal). Station: Gangtok.

UNITED NATIONS: *Permanent Representative of Government of India at the United Nations Headquarters (with rank of Ambassador):* Samarendra Sen. Address: Permanent Mission of India to the United Nations, New India House, 3-East 64th Street, New York. Station: New York.

COMMISSIONS

FIJI: *Commissioner of the Government of India:* A. P. Venkateswaran. Address: G.P.O. Box 405, Nina Street, Suva.

HONG KONG: *Commissioner for the Government of India:* V. Siddharthachary. Address: Tower Court, 11th Floor, Hysan Avenue, Hong Kong.

CONSULATES-GENERAL & CONSULATES

ATHENS: *Consul:* L. E. Vafiadiaz. Address: Consulate of India, 1, Valaoritou St.

BARCELONA (SPAIN): *Consul:* Louis Valeriano Gonzalez. Address: Consulate of India, Barcelona.

BASRAH: *Consul:* M. L. Puri.

BERLIN: *Consul-General:* P. Das Gupta. Address: Consulate-General of India, Joachimstaler Street, 28 (First Floor), Berlin 15.

CANARY ISLANDS: *Consul:* C. Boolchand. Address: Consulate of India, Las Palmas.

COMORES: *Consul-General* (also Ambassador to Malagasy Republic): A. R. Sethi. Resident in Tananarive.

COPENHAGEN: *Consul-General for India:* Victor B. Strand. Address: 36, Kronprinsessegade, Copenhagen.

FRANKFURT: *Consul-General* (Consular jurisdiction includes the State of Hessen, and Saarland): Suresh Kumar. Address: Consulate-General of India, Wilhelm-Leuschner Strasse, 93 (2nd floor), Frankfurt.

FRENCH SOMALILAND: *Consul:* S. J. Kothari. Address: Consulate of India, Djibouti.

GENEVA: *Consul-General* (concurrently accredited as Permanent Representative to the European Office of the United Nations and other International Organizations at Geneva): N. Krishnan. Address: Consulate-General of India, Place Edesaux-Vives, Geneva.

GENOA (Italy): *Consul:* Jack Clerici. Address: Consulate of India.

GHENT (Belgium): *Consul:* Robert Desprechins. Address: Consulate of India.

HAMBURG: *Consul-General:* Mohinder Singh. Address: 14, Burchardstrasse, Sprinkenhof, Hamburg. Consular jurisdiction includes the States of Hamburg, Bremen Schleswig Holstein and Lower-Saxony. Station: Hamburg.

HAWAII (Honolulu): *Consul*: Mrs. J. Watumull. *Address*: Consulate of India, 2227-A, Kalakana Avenue, Honolulu.

JALALABAD (Afghanistan): *Consul for India*: M. L. Chowdhry. *Address*: Consulate of India, Jalalabad.

KANDAHAR (Afghanistan): *Consul for India*: R. S. Singh. *Address*: Consulate of India, Kandahar.

KOBE: *Consul-General*: R. R. Ghatge. *Address*: Consulate-General of India, 94, Kitano-Cho, 2-Chome, Ikuta-Ku.

KHORRAMSHAHR: *Consul*: M. L. Puri. *Address*: Consulate of India, Khorramshahr.

KOREA (Democratic People's Republic of): *Consul-General*: A. W. B. Vaz. *Address*: Consulate-General of India, Pyong Yong.

KOREA (Republic of): *Consul-General*: S. J. S. Chhatwal. *Address*: Consulate-General of India, 4th floor, Sam Bo Bldg., No. 157-1 Sae-Jong Ro, Chongro-Ku, Seoul.

MANDALAY: *Consul*: G. R. Iyengar. *Address*: Consulate of India.

MEDAN: *Consul*: D. S. Khosla. *Address*: Consulate of India, 19, Dj, Uskup Agung A. Sugiopranoto, Medan (Indonesia).

MONTEVIDEO (Uruguay): *Consul*: Adolfo Vegeh. *Address*: Consulate of India, Plaza Zabala 324, Montevideo.

MUNICH: *Consul-General*: P. H. V. Mitter-Wallner. *Address*: Consulate-General of India, 27, Residenzste, Munich.

MUSCAT: *Consul-General*: D. J. Sengupta.

NEW YORK: *Consul-General for India*: V. K. Ahuja. *Address*: Consulate-General of India, 3-East, 64th Street, New York.

ODESSA (U.S.S.R.): *Consul*: M. K. Roy. *Address*: Consulate of India, U1, Kirov Street.

OHIO (Cleveland): *Consul*: Col. George P. Bickford. *Address*: Consulate of India, 1144, Union Commerce Bldg., Cleveland.

PANAMA: *Consul*: I. S. Randhawa. *Address*: Consulate of India.

SAN FRANCISCO: *Consul-General for India*: K. S. Bajpai. *Address*: Consulate-General of India, 215, Market Street, San Francisco 5.

SAN MARINO (Republic of): *Consul-General*: M. H. Siddiqui. Resident in Rome (Indian Embassy).

STUTTGART: *Hon. Consul-General*: Dr. R. Kisse. *Address*: Consulate-General of India, 17, Charlottenplatz.

SURINAM: *Consul-General* (also High Commissioner to Trinidad and Tobago and Jamaica): L. N. Ray. Resident in Port of Spain.

VIET NAM (Democratic Republic of): *Consul-General*: Dr. K. S. Shelvankar. *Address*: 58, Tran Hung Dao, Hanoi.

VIET NAM (South): *Consul-General*: Vacant. *Address*: Consulate-General of India, 213, Rue Catinat, Saigon. *Station*: Saigon.

VICE-CONSULATES

ZAHDAN: *Vice-Consul for India*: Raghubir Saran. *Address*: Vice-Consulate of India, Zahidan (East Iran), via Teheran.

INDIAN TRADE COMMISSIONS ABROAD

EUROPE

U.K. and IRELAND: *Minister* (Economic): High Commission of India in U.K., Aldwych, London, W.C. 2.

FRANCE: *First Secretary* (Commercial): Embassy of India, 15, Rue Alfred Dehondencq, Paris 16.

ITALY: *First Secretary* (Commercial): Embassy of India, via Francesco, Denze 36, Rome.

WEST GERMANY: *Counsellor* (Com.): Embassy of India, 262, Adenaurallee, Bonn.

STATE OF HAMBURG, BREMEN AND SCHELESWIG HOLSTEIN: *Consul-General of India*: 14, Burcharstrasse, Sprinkenhof, Hamburg.

STATE OF HASSE: *Consul-General of India*: Wilhelm-Leuschner-Strasse 93 (2nd floor), Frankfurt.

BELGIUM: *First Secretary* (Com.): Embassy of India, 121, Avenue Moliere, Brussels 18.

SWEDEN: *First Secretary* (Com.): Embassy of India, Vastra Tradgardsgatan, 15, Stockholm.

CZECHOSLOVAKIA: *Third Secretary* (Com.): Embassy of India, Valdstejnska, 6, Mala Strana, Prague 1.

SWITZERLAND: *Second Secretary* (Com.): Embassy of India, 20, Kalcheggweg, 3000, Berne.

YUGOSLAVIA and GREECE: *First Secretary* (Com.): Embassy of India, Prolelerskeh, Brigode 9, Belgrade.

U.S.S.R.: *Counsellor* (Com.): Embassy of India, 6 & 8, Ulitsa Obuka, Moscow.

POLAND: *First Secretary* (Com.): Embassy of India, No. 16, Niegolew-Skiego, Warsaw.

RUMANIA: *Second Secretary* (Commercial): Embassy of India, 41, Aleea Alexandru, Bucharest.

HUNGARY: *Second Secretary* (Commercial): Embassy of India, Buzavirag Utca, Budapest 11.

UNITED STATES OF AMERICA

U.S.A.: *First Secretary* (Commercial): Embassy of India, 2107 Massachusetts Avenue, N. W. Washington 8 D.C.

Consul: Consulate General of India, 215, Market Street, San Francisco 5.

First Secretary (Commercial): Consulate-General of India, 3, East 64th Street, New York, N.Y. 10021.

CANADA

CANADA: *Second Secretary* (Commercial): High Commission of India, 200, MacLaren Street, Ottawa-4.

BRITISH COLUMBIA: *Indian Trade Commissioner*: 924, Standard Building, W-Hastings Street, Vancouver-B.C.

AUSTRALIA AND NEW ZEALAND

AUSTRALIA: *Indian Trade Commissioner*: Caltex House, 10th Floor, 167-87, Kent Street, Sydney.

NEW ZEALAND: *High Commission of India*: 49, Willis Street, Wellington (New Zealand).

N.B.—In places where there are no Commercial Representative, our Diplomatic and Consular Officers look after India's trade interest.

AFRICA

NIGERIA, CAMEROUN, TOGO, DAHOMEY and NIGER: *First Secretary* (Commercial): High Commission of India, Private Mail Bag 2322, Lagos, Nigeria.

U.A.R. and LIBYA: *Counsellor* (Commercial): Embassy of India, Post Box No. 718, Cairo.

KENYA and ZANZIBAR: *First Secretary* (Commercial): High Commission for India, Harambee Avenue, Jeevan Bharti, P. Box No. 30074, Nairobi (Kenya).

TANZANIA: *Third Secretary* (Commercial): High Commission for India, 2, Inglis Street, Box No. 2684, Noor Manzil, Dar-es-Salaam (Tanzania).

ALGERIA: *First Secretary* (Commercial): Embassy of India, 119-ter Rue Didouche Maurad, Algiers.

SENEGAL: *First Secretary* (Commercial): Embassy of India, Dakar.

MOROCCO: *Third Secretary* (Commercial): Embassy of India, 11, Rue Descartes, Rabat, Morocco.

SUDAN: *First Secretary* (Commercial): Embassy of India, Post No. 707, Khartoum.

ETHIOPIA: *First Secretary* (Commercial): Embassy of India, Post No. 528, Addis Ababa.

TUNISIA: *First Secretary* (Commercial): Embassy of India, No. 6, Bis Rue Massena, Tunis.

GHANA, LIBERIA and SIERRA LEONE: *First Secretary* (Commercial): High Commission of India, P. Box No. 3040, Accra.

UGANDA: Commercial Attache: High Commission of India, Bank of India Bldg., Kampala Road, Kampala.

JORDAN: *First Secretary* (Commercial/C.D.A.): Embassy of India, Amman.

ASIA

JAPAN: *First Secretary* (Commercial): Embassy of India, 11-90, No. 2-Chome, Kudan, Minami, Chiyoda-Ku, Tokyo.

CEYLON: *First Secretary* (Commercial): Nadaraja Building, Kollupitiya Station Road, Colombo-3.

BURMA: *Second Secretary* (Commercial): Embassy of India, Oriental Assurance Buildings, 547-47, Merchant Street, P.O. Box 751, Rangoon.

PAKISTAN: *Second Secretary* (Commercial): High Commission of India, India House, 3, Bonus Road, Karachi.

EAST PAKISTAN: *Second Secretary* (Commercial): Deputy High Commission, 6/3, Topkhana Road, Dacca.

THAILAND: *First Secretary* (Commercial): Embassy of India, 139, Pan Road, Bangkok.

SAUDI ARABIA: *Second Secretary* (Commercial): Embassy of India, Sulaiman-al-Turkey House, Al-Sharafia, Boghdadia, Jeddah.

IRAQ: *Second Secretary* (Commercial): Embassy of India, 22/12A1, Tahari Street, Waziriah, Baghdad.

SYRIAN ARAB REPUBLIC: *Second Secretary* (Commercial): Embassy of India, Yusin Yovainatti Bldg., Adnan Malka Avenue, Damascus.

LEBANON, JORDAN and CYPRUS: *First Secretary* (Commercial): Embassy of India, 31, Kantari Street, Beirut.

INDONESIA: *Second Secretary* (Commercial): Embassy of India, P. Box No. 118-44, Kebon Serih, Djakarta.

PHILIPPINES: *Second Secretary* (Commercial): Embassy of India, 1856, B. Bocobo Street, Malate, Manila.

ADEN: Embassy of India, Steamer Point, Aden.

BAHRAIN: Government of India Trade Agency, Indian Display Centre, Government Road, Manama, Bahrain.

DUBAI: Indian Trade Agency, Post Box 737, Dubai.

IRAN: *First Secretary* (Commercial): Embassy of India, 3589/7 Avenue Saba Shomali, Teheran.

HONG KONG: *First Secretary* (Commercial): Commission for India, Tower-Court, 11th Floor (Near Sunning House), Hysan Avenue, Hong Kong.

CAMBODIA: *Second Secretary:* Embassy of India, Phnom Penh.

SOUTH KOREA: Consulate-General of India, Seoul.

EMBASSIES IN INDIA

AFGHANISTAN: *Ambassador:* Ataollah Nasser Zia. Address: 24, Ratendone Road, New Delhi 11.

ALGERIA: *Ambassador:* Ali Lakhdari. Address: 13, Sundar Nagar, New Delhi 11.

ARGENTINA: *Ambassador:* Adolfo A. Bollini. Address: C-27/28, South Extension Part II, New Delhi 49.

AUSTRIA: *Ambassador:* Dr. Johanna Nestor. Address: 3A, Nyaya Marg, Diplomatic Enclave, New Delhi 21.

BELGIUM: *Ambassador:* Jean Leroy. Address: 7, Golf Links, New Delhi 3.

BRAZIL: *Ambassador:* Vladimir De Amaral Murtinho. Address: 8, Aurangzeb Road, New Delhi 11.

BULGARIA: *Ambassador:* Naiden P. Belchev. Address: 198, Golf Links Area, New Delhi 3.

BURMA: *Ambassador:* U Hla Maw. Address: Burma House, 3/50-F, Shantipath, Chanakyapuri, New Delhi 21.

CAMBODIA: *Ambassador:* Nong Kimny. Address: 25, Golf Links, New Delhi 3.

CHILE: *Ambassador:* Julio Barrenechea P. Address: C108, New Delhi South Extn. Part II, New Delhi 16.

CHINA: *Ambassador:* Vacant. Address: 28, Prithviraj Road, New Delhi.

COLOMBIA: *Ambassador:* Vacant. Address: 22, Jor Bagh, New Delhi 3.

CONGO (Democratic Republic of): *Ambassador:* Gen. Leonard Mulamba. Address: 5, Golf Links, New Delhi 3.

CUBA: *Ambassador:* Vacant. Address: 56, Ring Road, Lajpatnagar-III, New Delhi 24.

CZECHOSLOVAKIA: *Ambassador:* Richard DVORAK. Address: 25, Aurangzeb Road, New Delhi.

DENMARK: *Ambassador:* Hans Adolf Biering. Address: 6, Golf Links Area, New Delhi 3.

ETHIOPIA: *Ambassador:* Vacant. Address: 29, Prithviraj Road, New Delhi 11.

FINLAND: *Ambassador:* Wilhelm Schreck. Address: 42, Golf Links, New Delhi 3.

FRANCE: *Ambassador:* Jean Daridan. Address: 2, Aurangzeb Road, New Delhi 11.

GERMANY, FEDERAL REPUBLIC OF: *Ambassador*: Freiherr Dietrich von Mirbach. *Address*: No. 6, Block 50-G, Shanti Path, Chanakyapuri, New Delhi 21.

GREECE: *Ambassador*: Dr. Constantine Panayatacos. *Address*: 188, Jor Bagh, P. Box 3058, New Delhi 3.

HOLY SEE: *Apostolic Pronuncio*: The Most Rev. Joseph Marie Lemieu. *Address*: Niti Marg, Chanakyapuri, New Delhi 21.

HUNGARY: *Ambassador*: Dr. Peter Vos. *Address*: 15, Jor Bagh, New Delhi 3.

INDONESIA: *Ambassador*: Mohammad Rafiz. *Address*: 50-A, Chanakyapuri, New Delhi 21.

IRAN: *Ambassador*: A. Mohammed Reza. *Address*: 1, 37, Golf Links, New Delhi 3.

IRAQ: *Ambassador*: Vacant. *Address*: 33, Golf Links, New Delhi.

IRELAND: *Ambassador*: Valentin Iremonger. *Address*: 2, Bhagwandas Road, New Delhi 1.

ITALY: *Ambassador*: Dr. Maurizio de Strobil di Fratta e. Campocigno. *Address*: 7, Jor Bagh, New Delhi 3.

JAPAN: *Ambassador*: Atsushi Uyama. *Address*: Plot Nos. 4 & 5, Block 50-G, Shanti Path, Chanakyapuri, New Delhi 11.

JORDAN: *Ambassador*: Anwar Nashadibi. *Address*: 120, Malcha Marg, Chanakyapuri, New Delhi 21.

KUWAIT: *Ambassador*: Issa A. Al-Essa. *Address*: 19, Friend Colony West, New Delhi 14.

LAOS: *Ambassador*: Phagna Oun Hueun Norasingh. *Address*: 4, Circular Road, Chanakyapuri, New Delhi 21.

LEBANON: *Ambassador*: Mohammed Fathalia. *Address*: 3, Panch Sheel Marg, Chanakyapuri, New Delhi 21.

MEXICO: *Ambassador*: Carlos Gutierrez-Macias. *Address*: 136, Golf Links, New Delhi 3.

MONGOLIAN PEOPLE'S REPUBLIC: *Ambassador*: Tsevegombyn Demiddavag. *Address*: 34, Golf Links, New Delhi 3.

MOROCCO: *Ambassador*: Abdallah Lamrani. *Address*: 199, Jor Bagh, New Delhi 3.

NEPAL: *Ambassador*: Bhim Bahadur Pandey. *Address*: Barakhamba Road, New Delhi 1.

NETHERLANDS: *Ambassador*: Hubert Th. A. M. Van Rijckeversel. *Address*: 6/50F, Shanti Path, Chanakyapuri, New Delhi 11.

NORWAY: *Ambassador*: Haakon Nord. *Address*: Kautilya Marg, Chanakyapuri, New Delhi 21.

PERU: *Ambassador*: Eduardo Sarmiento C. *Address*: D-290, Defence Colony, New Delhi 3.

PHILIPPINES: *Ambassador*: Leon Ma. Guerrero. *Address*: 50-N, Nyaya Marg, Chanakyapuri, New Delhi 21.

POLAND: *Ambassador*: Romuald Spasowski. *Address*: 22, Golf Links, New Delhi 3.

RUMANIA, SOCIALIST REPUBLIC OF: *Ambassador*: Aurel Ardeleanu. *Address*: 48, Golf Links, New Delhi 3.

SAUDI ARABIA: *Ambassador*: Shaikh Anas Youssef Yassin. *Address*: 1, Eastern Avenue, Maharani Bagh, New Delhi 14.

SPAIN: *Ambassador*: Guillermo Nadal. *Address*: 12, Prithviraj Road, New Delhi 11.

SUDAN: *Ambassador*: Sayed Amin Magsoub Abdoun. *Address*: 6, Jor Bagh, New Delhi 3.

SWEDEN: *Ambassador*: Prof. Gunnar Heckscher. *Address*: Nyaya Marg, Chanakyapuri, New Delhi 11.

SWITZERLAND: *Ambassador*: August Lindt. *Address*: Nyaya Marg, Chanakyapuri, New Delhi 21.

SYRIAN ARAB REPUBLIC: *Ambassador*: Omar Abou Riche. *Address*: 10, Panch Sheel Marg, Chanakyapuri, New Delhi 21.

THAILAND: *Ambassador*: Prem Purachatrat. *Address*: 56-N, Nyaya Marg, Chanakyapuri, New Delhi 21.

TURKEY: *Ambassador*: Mahmut Dikerdem. *Address*: No. 27, Jor Bagh, New Delhi 3.

UNION OF SOVIET SOCIALIST REPUBLICS: *Ambassador*: Nikolai M. Pegov. *Address*: Shanti Path, Chanakyapuri, New Delhi 21.

UNITED ARAB REPUBLIC: *Ambassador*: Mohamed Amin Helmy II. *Address*: 26, Jor Bagh, New Delhi 3.

UNITED STATES OF AMERICA: *Ambassador*: Kenneth B. Keating. *Address*: Shanti Path, Chanakyapuri, New Delhi 21.

URUGUAY: *Charge d'Affaires*: José D. Lissidini. *Address*: 11-A, Aurangzeb Road, New Delhi 11.

VENEZUELA: *Ambassador*: Dr. J. Uslar Pietri. *Address*: 145, Golf Links, New Delhi 3.

YUGOSLAVIA: *Ambassador*: Dr. Slavko Komar. *Address*: 3/50G, Niti Marg, Chanakyapuri, New Delhi 21.

HIGH COMMISSIONS IN INDIA

AUSTRALIA: *High Commissioner*: Sir Arthur Harold Tange, C.B.E. *Address*: 1/50G, Shanti Path, Chanakyapuri, New Delhi 21.

BRITAIN: *High Commissioner*: The Rt. Hon. Sir Morrice James. *Address*: Shanti Path, Chanakyapuri, New Delhi 21.

Minister (Political): D. L. Cole, C.M.G., M.C.

Deputy High Commissioner: J. Mckenzie, M.B.E., P.H.D. *Address*: 1, Harrington Street, Calcutta 16.

Deputy High Commissioner: M. H. G. Rogers. *Address*: Mercantile Bank Building, Mahatma Gandhi Road, Bombay.

Deputy High Commissioner: V. C. Martin, C.B.E. *Address*: Local Library Authority Bldg., 150-A, Mount Road, Madras 2.

CANADA: *High Commissioner*: James George. *Address*: 4, Aurangzeb Road, New Delhi 11.

CEYLON: *High Commissioner*: Siri Perera. *Address*: 27, Kautilya Marg, Chanakyapuri, New Delhi 21.

GHANA: *High Commissioner*: Maj. Gen. S. J. A. Otu. *Address*: 2, Golf Links, New Delhi 3.

MALAYSIA: *High Commissioner*: Raja Aznam bin Raja Haji Ahmad. *Address*: 3, Link Road, Jangpura, New Delhi 14.

Asst. High Commissioner: G. K. Alfred Kumaraseri. *Address*: 110/1, Mount Road, Teynampet, Madras.

MAURITIUS: *High Commissioner*: Rabindrah Ghurburun. *Address*: 136, Malcha Marg, Chanakyapuri, New Delhi 21.

NEW ZEALAND : *High Commissioner :* B. S. Lendrum.
Address : 39, Golf Links, New Delhi 3.

NIGERIA : *High Commissioner :* John Ndubeze Ukegbu.
Address : 169/170, Jor Bagh, New Delhi 3.

PAKISTAN : *High Commissioner :* Sajjad Hyder.
Address : 2-50-G, Shanti Path, Chanakyapuri, New Delhi 21.

Deputy High Commissioner : S. A. Pasha.

Deputy High Commissioner : A. F. M. Abul Fateh.
Address : 9, Circus Avenue, Calcutta 5.

SINGAPORE : *High Commissioner :* Maurice Baker.
Address : 16, Ring Road, Lajpatnagar IV, New Delhi 24.

TANZANIA : *High Commissioner :* Sebastian Chale.
Address : E-106, 'Hill View', Greater Kailash, New Delhi 48.

UGANDA : *High Commissioner :* Yokosafiti Engur.
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AFGHANISTAN : *Consul-General :* Abdul Kayoum Azizi. *Address :* 115, Walkeshwar Road, Bombay 6.

AUSTRIA : *Hon. Consul-in-Charge :* Mrs. Alice Khan.
Address : 3, Cuffe Parade, Colaba, Bombay 5.

BELGIUM : *Vice-Consul-in-Charge :* Th. De Greeff.
Address : "Morena", 11, Carmichael Road, Cumballa Hill, Bombay 26.

Vice-Consul-in-Charge : H. Boudry. *Address :* 6, Camac Street, Calcutta 17.

Consul (Honorary) : M. Nevens. *Address :* 1-E, Spurtank Road, Chetput, Madras 31.

BOLIVIA : *Hon. Consul-General :* J. K. Gora. *Address :* 7, Wellesley Palace, Calcutta 1.

BRAZIL : *Honorary Consul :* J. R. Antonio Viegas.
Address : 8/6, Alipore Park Road, Calcutta 27.

BURMA : *Consul-General :* Daw Kin Mae Wynn.
Address : 46/C, Chouringhee Road, Calcutta 16.

Vice-Consul : U Ba Htay. *Address :* 3, Murray Gate Road, Teynampet, Madras 18.

COSTA RICA : *Consul-General :* I. A. Makani. *Address :* Standard Bldg., 346, Dadabhoy Naorji Road, Bombay 1.

Vice-Consul : Roy E. Chambers. *Address :* 6-A, Waddels Road, Madras 10.

CZECHOSLOVAKIA : *Consul-General :* Vacant.
Address : "Marcopia", 5, Pedder Road, Cumballa Hill, Bombay 26.

Consul-General : Jaroslav Kafka. *Address :* 127, Southern Avenue, Calcutta 29.

DENMARK : *Hon. Consul-General :* E. B. Mogensen.
Address : Eros Cinema Building, 124-D, Maharshi Karve Road, Bombay 20.

Hon. Consul : J. Svane-Christensen. *Address :* 18-G, Park Street, Calcutta.

Hon. Consul : Emil Fjermeros. *Address :* Indo-Norwegian Project, 70, Mahatma Gandhi Road, Ernakulam (Cochin).

Hon. Consul : F. Korner. *Address :* 8, Montieth Lane, Egmore, Madras 8.

DOMINICAN REPUBLIC : *Consul-General (Hon.) :* H. Ismail. *Address :* 208, D. Wachha Road, Mistry Court, Opp. C.C.I., Bombay 20.

ECUADOR : *Consul :* Kalyan Sen. *Address :* 13, Camac Street, Calcutta 17.

EL SALVADOR : *Consul :* Karanjaksha Bonerjee.
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ETHIOPIA : *Hon. Consul-General :* Ismail M. Kanga.
Address : Crescent Chambers, Tamarind Lane, Fort, Bombay.

FINLAND : *Hon. Consul :* J. D. Hicks. *Address :* Chartered Bank Building, Post Box No. 73, Mahatma Gandhi Road, Bombay 1.

Hon. Consul : S. R. Stephens. *Address :* P. O. Box 209, 2, Netaji Subhas Road, Calcutta.

FRANCE : *Consul-General :* Mejid Kebaili. *Address :* Vulcan Insurance Building, 5th Floor, Churchgate Reclamation, Bombay 20.

Consul-General : Henri Beffeyte. *Address :* 26, Park Mansion, Park Street, Calcutta 16.

Consul-General : Achille Andreani. *Address :* 7, Cenotaph Road, Teynampet, Madras.

Consul-General : Henri Durieux. *Address :* 2, Rue de la Marine, Pondicherry.

Consular Agent : Christian Revel. *Address :* 6/75, Calvethy Road, Cochin-1.

GERMANY (Federal Republic) : *Consul-General :* Vacant. *Address :* Dugal House, 5th Floor, Road No. 3, Backbay Reclamation, Bombay 20.

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World Health Organization Regional Office for South-East Asia : World Health House, Indraprastha Estate, Ring Road, New Delhi 1.

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New Delhi : A. R. Taysom, Commercial Counsellor and Trade Commissioner, 1/50 G. Shantipath, Chanakyapuri, New Delhi, P.O. Box 3033. *Bombay* : K. Sarup, Marketing Officer, Mercantile Bank Building, 52/56 Mahatma Gandhi Rd., Bombay 1, P.O. Box 217. *Calcutta* : N. L. Harris, Trade Commissioner, Brooke House, 2nd Floor, 9, Shakespear Sarani, Calcutta 16, P.O. Box, No. 9110.

BRITAIN

Delhi :—J. A. Turpin, C.M.G., Minister (Economic and Commercial). *Address* : British High Commission, Shantipath, Chanakyapuri, New Delhi-11. *Calcutta* :—R. G. Marlow, First Secretary (Commercial). *Address* : 1, Harrington Street, Calcutta-16. *Bombay* :—R. L. B. Cornack, First Secretary (Commercial). *Address* : Mercantile Bank Building, Mahatma Gandhi Road, Fort, Bombay-1. *Madras* :—A. J. Waple, First Secretary (Commercial). *Address* : 150-A, Mount Road, Madras 2.

CANADA

New Delhi:—Commercial Counsellor. *Address*: Office of the High Commissioner for Canada, 4, Aurangzeb Road, New Delhi 11.

CEYLON

Ceylon Govt. Trade Commissioner: Ceylon House, Bruce Street, Fort, Bombay.

NEW ZEALAND

Address: New Zealand High Commission, 39, Golf Links, New Delhi 3.

AUSTRIA

Austrian Trade Representative in India: Dr. W. Konrad. *Address*: The Beacon, Foreshore Road, P.O. Box 1385, Bombay 1.

BULGARIA

Economic & Commercial Counsellor: B. Roushkov. *Address*: 150, Golf Links Area, New Delhi 3. *Trade Commissioner at Bombay*: I. G. Yotov. *Address*: Flat No. 11, Peacock Place, 69, Bhulabhai Desai Road, Bombay-26. *Trade Commissioner at Calcutta*: R. Sabkov. *Address*: 6-A, Middleton Street, 5th Floor, Calcutta-16.

CZECHOSLOVAKIA

Economic & Commercial Counsellor & Trade Representative: Valdimir Kirsbaum. *Address*: 65, Golf Links Area, New Delhi 3. *Trade Commissioner*: Jaroslav Skokan. *Address*: Kasturi Bldgs., Jamshedji Tata Road, Bombay 1. *Trade Commissioner*: F. Jurceka. *Address*: 24-B, Park Street, 4th Floor, Calcutta 16. *Trade Commissioner*: M. Vachal. *Address*: 1/J, Nungambakkam High Road, Madras 34.

FINLAND

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New Delhi:—Commercial Counsellor to the French Embassy, 130, Jor Bagh. *Bombay*:—Trade Commissioner for France, "Beacon," Foreshore Road, Bombay 1. *Calcutta*:—Trade Commissioner for France, 13, Park Mansions, Park Street, Calcutta. *Madras*:—Trade Commissioner for France, 18, Wallace Gardens, 1st Floor, Madras 6.

GERMAN DEMOCRATIC REPUBLIC

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GERMANY (FEDERAL REPUBLIC)

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Note: In the case of other countries trade matters are being looked after by the respective Embassies, High Commissions and Consulates-General.

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Trade Representation of the Hungarian People's Republic:—

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ITALY

Consulate-General for Italy with Jurisdiction over Commercial matters: Vaswani Mansion, Dinshaw Wachha Road, Bombay 20.

JAPAN

Consulate-General: Bombay, Kashmir House, 19, Nepean Road, Bombay 6. *Consulate-General*: Calcutta, 12 Pretoria Street, Calcutta 16. *Consulate-General*: Madras, 20, Nungambakkam High Road, Madras 34.

POLAND

New Delhi:—Commercial Counsellor: St. Mrowczyk, 42/44 Sundar Nagar, New Delhi. *Bombay*:—Consul: J. Broloski, Manavi Apartment, Ridge Road, Malabar Hill, Bombay 6. *Calcutta*:—Consul: Z. Tomezyk, 13, Camac Street, Calcutta 16.

RUMANIA

Trade Representation of Socialist Republic of Rumania in India, 61, Golf Links, New Delhi 3 (*Head Office*). *Bombay Office*: Steelcrete House, Dinshaw Vachha Road, Bombay 20; *Calcutta Office*: Nilhat House, 8th floor, 11, Rajendra Nath Mukherjee Road, Calcutta 1; *Madras Office*: 30, Haddow's Road, Madras 6.

SWEDEN

Office of the Commercial Attaché, Royal Swedish Embassy, Chandragupta Marg, Chanakyapuri, New Delhi 21.

U.S.A.

Economic Section. Address: American Consulate-General, "Lincoln House," 78, Bhulabhai Desai Road, Bombay 26.

U.S.S.R.

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 Totaram Sagarlal & Sons, Abid Road, Hyderabad 1.
 Tungabhadra Industries Ltd., Ali Villa, Somajiguda, Hyderabad.
 U-Foam (P) Ltd., B-15/16, Industrial Estate, Hyderabad 18.
 United Engineering Corpn., 147, Rashtrapati Road, Secunderabad.
 Universal Trading Agency, 91, Sarojini Devi Road, Secunderabad.
 Vidya Sewing Machine Co., Opp. Dewan Devdi, Hyderabad.
 Voltas Limited, 87/D, Rashtrapati Road, Secunderabad.
 Warangal Industries Ltd., 248, Sultan Bazar, Hyderabad.
 William Jacks & Co. Ltd., Station Road, Hyderabad.

ANDHRA—CLASSIFIED LIST OF TRADES & PROFESSIONS

ADVERTISING AND PUBLICITY AGENTS

Allied Publicity.—Chatta Bazar, Hyderabad.
 Associated Advertisers.—'Kumud Kunj', Sultan Bazar, Hyderabad.
 Edin & Co.—Troop Bazar, Hyderabad.
 Hyderabad Publicity.—Afzulgunj, Hyderabad.
 Kamal Publicities.—Sarojini Devi Road, Secunderabad.
 Khan & Sons.—Opp. Muzamjahi Road, Sultan Bazar, Hyderabad.
 OJO Publicity.—638, Hindustani Galli, Hyderabad.
 Paras Publicity.—Opp. Nishat Talkies, Hyderabad.
 Saba & Co. (Estd. 1930).—171, Chapel Road, Hyderabad.
 Standard Publicity.—115, Sarojini Devi Road, Secunderabad.

AGRICULTURAL MACHINERY AND IMPLEMENTS

Agricultural & General Engineering Works.—1-1-75, Mushirabad Road, Hyderabad.
 Belde Engineering Company.—144, Rashtrapathi Road, Secunderabad.
 Crushe & Co.—Boorugu Mansions, 62, Mahatma Gandhi Road, Secunderabad (A.P.); Manufacturers and Suppliers to all Government departments and Manufacturers' representatives.
 Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad.
 Gunti & Co. Private Ltd.—128, Mahatma Gandhi Road, North, Secunderabad 3 (A.P.).
 Industrial Stores Co.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.
 Patalay Commercial Corporation.—Basheerbagh, Hyderabad.
 Pushp Trading Co.—Rashtrapathi Road, Secunderabad.
 Rayyat Commercial Corporation Ltd.—141, Rashtrapati Road, Secunderabad.
 Secunderabad Agricultural Machinery Co.—130, Rashtrapati Road, Secunderabad.
 Swastik Manufacturers Ltd.—128, Mahatma Gandhi Road, Secunderabad (A.P.).
 Voltas Limited.—87/D, Rashtrapathi Road, Secunderabad.

AIR & HYDRAULIC EQUIPMENT

VEL JAN-HYDRAIR PRIVATE LIMITED

Balanagar, Hyderabad-37

★

Manufacturers of :

Air & Hydraulic Cylinders, Control Valves including Solenoid operated. Air Bench Presses, Linear Air Motors, Air Filters, Regulators & Lubricators.

AIR-CONDITIONING AND REFRIGERATION

EMSON ENGINEERING CORPORATION.—142, Rashtrapati Road, Post Box 1573, Secunderabad 3. Phone : 72232.
 Frizair Corporation.—B-23, Industrial Estate, Sanatnagar, Hyderabad 18.

AUTOMOBILES AND AUTOMOBILE PARTS AND ACCESSORIES

HYDERABAD

Andhra Automobiles.—Siddiamber Bazar, Hyderabad.
 Apex Motors.—87 Rashtrapathi Road, Behind General Post Office, Secunderabad.
 Auto Supplies.—Caltex Service Station, Bashir Bagh Road, Hyderabad (A.P.).
 Associated Automobiles.—Siddiamber Bazar, Hyderabad.
 Auto Emergency Service.—Opp. Leg. Assembly, Hyderabad.
 Auto Service.—Public Garden Road, Hyderabad.
 Auto Supplies.—Caltex Service Station, Bashir Bagh Road, Hyderabad.
 Azad Motor Transport Co.—Karbala, Maidan Road, Hyderabad.
 Bombay Hyderabad Motor Service.—Nizamshahi Road, Hyderabad.
 Deccan Automobiles.—Siddiamber Bazar, Hyderabad.
 Hyderabad Automobiles Co.—15-9-448, Afzalgunj, Hyderabad.
 India Leaf Spring Mfg. Co. P. Ltd.—B-33, Industrial Estate, Hyderabad 18.
 Patalay Automobiles.—Bashir Bagh, Hyderabad.
 Pioneer Automobiles.—Siddiamber Bazar, Hyderabad.
 Prabhat Automobiles.—Siddiamber Bazar, Hyderabad.
 Raj Automobiles.—Siddiamber Bazar, Hyderabad.
 Reliable Corporation P. Ltd.—15-2-419, Siddiamber Bazar, Hyderabad.
 Sevaka Automobiles.—Gouliguda Chaman, Hyderabad.
 Sri Ramdas Transport P. Ltd.—Begum Bazar, Hyderabad.
 State Automobiles.—Nizamshahi Road, Hyderabad.

SECUNDERABAD

Afzul Cycle & Motor Stores.—Mahatma Gandhi Road, Secunderabad.
 Arun Automobiles.—103, Sardar Patel Road, Secunderabad.
 Associated Trades.—Rashtrapati Road, Secunderabad.
 AUTO CHENOY.—62-D, Sarojini Devi Road, Secunderabad (Dn.); Phone : 74836; Grams : "AUTOCHENOY." Sole Distributors in old Hyderabad State, STANDARD & TRIUMPH Cars; Repairing of Cars of all makes undertaken.
 Autofins Ltd., 8573, Rashtrapati Road, Secunderabad.
 Bharat Motor Stores.—Ranigunj, Secunderabad.
 Bombay Cycle & Motor Agencies.—Mahatma Gandhi Road, Secunderabad.
 Defiance Automobiles.—Mehta Mahal, 49, M. G. Road, Secunderabad.
 Hind Auto Engineering Co., Rashtrapati Road, Secunderabad.
 Hyderabad Auto Service, 49, M. G. Road, Secunderabad.
 Madras Cycle & Motor Mart.—7936, Mahatma Gandhi Road, Secunderabad 3.

Motor House.—Ranigunj, Secunderabad.
M. S. Kalyan Setti.—Mahatma Gandhi Road, Secunderabad.
Supreme Automobiles.—Ranigunj, Secunderabad.
United Motor Parts Co.—Ranigunj, Secunderabad.

AUTOMOBILE ENGINEERS

AUTO CHENOY.—62-D, Sarojini Devi Road, Secunderabad (Dn.). Phone: 74836. Grams: "AUTOCHENOY". Sole Distributors in old Hyderabad State; STANDARD & TRIUMPH Cars; Repairing of Cars of all makes undertaken.

BOOKSELLERS AND PUBLISHERS

HYDERABAD

Andhra Book House.—Sultan Bazaar, Hyderabad.
Hyderabad Publicity.—Afzal Gunj, Hyderabad.
Joshi Bros.—Gowliguda, Hyderabad.
J. C. Pinto & Co.—Abid Road, Hyderabad.
Kotari Book Depot.—Bashir Bagh, Hyderabad.
Orient Longmans P. Ltd.—Gunfoundry Road, Hyderabad.
Oriental Publishing Co.—Nampally, Hyderabad.

SECUNDERABAD

Ajanta Publications & Book Sellers.—7112, Mahankali Street, Secunderabad.
Cosmopolitan Book House.—Rashtrapathi Road, Secunderabad.
Good News Literature Centre.—94E, Sarojini Devi Road, Secunderabad.
Hindustan Diary Publishers.—3997, Market Street, Secunderabad.
J. C. Pinto & Co.—Sarojini Devi Road, Secunderabad.
Kadambi News Agents & Book Sellers.—75, Sarojini Devi Road, Secunderabad.
Majestic Book Depot.—Sarojini Devi Road, Secunderabad.
Oxford Book Depot.—Sarojini Devi Road, Secunderabad.
Rashtrapathi Book Depot & News Agents.—Rashtrapathi Road, Secunderabad.
Readers Corner & Co.—Sarojini Devi Road, Secunderabad.
Sree Rama Book Depot.—Market Street, Secunderabad.

CEMENT

PANYAM CEMENTS & MINERAL INDUSTRIES LTD.

Manufacturers of:
'PYRAMID' brand Cements

Regd. Office :
Cement Nagar P.O., Via Bugganipalli R. S., Kurnool Dt.

CHEMICAL & PHARMACEUTICAL PRODUCTS MANUFACTURERS

Ajanta Chemical Works (India), G-2/577, Jubilee Hills, Hyderabad.
Biochemical & Synthetic Products Ltd., Sanatnagar, Hyderabad 18.
Bright Chemicals and Pharmaceuticals, 1-A.23, Begumpet, Hyderabad.
Commercial Chemical Co. B-4, Sanatnagar, Hyderabad 18.
Dalphin Laboratories P. Ltd., 4-1-895-2, Tilak Road, Hyderabad.
Hyderabad Chemical & Pharmaceutical Works Ltd.—Azamabad, Industrial Area, Hyderabad 20.
Hyderabad Chemical Supplies Ltd.—Opp. Central Bank, Sultan Bazar, Hyderabad.
Hyderabad Chemicals & Fertilizers Ltd.—Bashir Bagh, Hyderabad.
Indian Chemical and Pharmaceutical Works, Azamabad, Hyderabad 20.
J. & J. DeChane.—Residency Road, Hyderabad.

BENZYL CHLORIDE BENZYL ACETATE

Manufactured by:

ORGAROMA INDIA PVT. LTD.

Toli Chowki, Hyderabad-8 (AP).

Grams : 'DIAMOND'

Phone : 31392.

Pancha Pharma Corporation.—1102, Narayanguda, Hyderabad 29.
Standard Pharmaceutical Works Ltd., 5-8-579, Abid Road, Hyderabad.

CIGARETTE MANUFACTURERS

THE VAZIR SULTAN TOBACCO CO. LTD.

Azamabad—Hyderabad

Makers of "CHARMINAR"

India's Largest Selling Cigarettes.

Phone : 36861-2-3, Grams : "CHARTOBCO"

Telex : Chartob —236

Chairman—237

CINEMATOGRAPH

CENTRAL STUDIO.—Bashir Bagh, Hyderabad. Phones: 32355, 75322. Grams: "CENTUDIO". By Appointment to the President of India; for everything Photographic and Cinematic.

DENTAL GOODS

Dr. K. PATEL & SONS.—Eruchshaw Building, 249, Dadabhyo Naoroji Road, Fort, Bombay (B.R.), Phone : 263762; Direct Importers of Dental Equipment & Sundries. Branch at: Uttam Niwas, 5-4-32/1A, Jawaharlal Nehru Road, Hyderabad-1 A.P.; Phone: 45612.

ELECTRICAL ENGINEERS AND CONTRACTORS

Associated Engineering Co.—137, Kingsway, Secunderabad.

BAJAJ ELECTRICALS LTD.—Public Garden Road, Hyderabad, AP; Marketing Electrical Consumer goods, Electrical Engineers, Manufacturers and Contractors; Phone : 33335; Grams: "SOFTLITE"; Head Office: 45, 47, Veer Nariman Road, Bombay-1.

Dominion Engineering Corporation.—P.O. Box No. 37, Rashtrapathi Road, Secunderabad.

M. K. Mudaliar & Sons.—8059, Rashtrapathi Road, Secunderabad.

Nathoo Laijee.—Gunfoundry Road, Hyderabad.

Shanker Electric Stores.—Shanker Mahal, 31, Mahatma Gandhi Road, Secunderabad.

Standard Radio Electronics.—Sultan Bazar, Hyderabad.

ELECTRICAL & ENGINEERING GOODS MFRS. AND DEALERS

Andhra Pradesh Co., The.—Durga Bhavan, Rashtrapathi Road, Secunderabad 3.

Belde Engineering Company.—6549, Rashtrapathi Road, Secunderabad.

Bombay Electric Stores.—121, James Street, Secunderabad.

The Central Trading Co.—Rashtrapathi Road, Secunderabad.

Chandra Electrics.—3121, Kingsway, Secunderabad.

Crushic & Co.—Boorugu Mansions, 62, Mahatma Gandhi Road, Secunderabad (A.P.); Manufacturers and Suppliers to all Government departments and Manufacturers' representatives.

Deccan Electric Stores.—10, Sultan Bazar, Hyderabad.

Eastern Electric and Engineering Co. Ltd.—3/8, Rashtrapathi Road, Secunderabad.

Elektra Products.—C-17, Sanatnagar, Hyderabad 18.

Electric Transformer & Equipment Co.—5-9-19/15, Saifabad, Hyderabad 22.

EMSON ENGINEERING CORPORATION.—142, Rashtrapathi Road, Post Box 1573, Secunderabad 3. Phone : 72232.

Hindustan Corporation Ltd.—Domalguda, Hyderabad.

Prabhu Electric Co.—Rashtrapathi Road, Secunderabad.

Scientific Electricals.—Shalibanda, Hyderabad.

Shanker Electrics.—205, Yousuf Building, Abid Road, Hyderabad.

Speedwell Electricals P. Ltd.—B-1, Sanatnagar, Hyderabad 18.

Sun Electric & Motor Stores.—3153, Kingsway, Secunderabad.

Switchgear Mfg. Co.—C-5, Industrial Estate, Sanatnagar, Hyderabad 18.

Vijay Radio & Electric Service.—King's Corner, Abid Road, Hyderabad.

V-X-L Agency.—138, Rashtrapathi Road, Secunderabad.

ELECTRONIC INSTRUMENTS MFRS.

ELECTRONIC & INDUSTRIAL INSTRUMENTS CO. PVT. LTD.

Factory & Regd. Office : 17-B, Sanatnagar, Hyderabad-18 ; 230/95, D. S. Phalke Road, Bombay 14 ; 30, Jawaharlal Nehru Road, Calcutta-16 ; 2-E-6, Jhandewalan Extn., New Delhi-55.
Mfrs. of Electronic Measuring Instruments.

HOTELS AND RESTAURANTS

Everest Hotel.—Opp. Rly. Stn., Secunderabad.
Grand Hotel.—Abid Road, Hyderabad.
Madina Hotel.—Pathergatti, Hyderabad.
Montgomery's Hotel.—Sarojini Devi Road, Secunderabad 3.
New Kashmir Hotel.—Osmanganj, Hyderabad.
New Rajkamal Hotel.—1063, Narayanguda, Hyderabad.
New Tajmahal Hotel.—Sultan Bazar, Hyderabad.
Orient Hotel.—Abid Road, Hyderabad.

PERCY HOTEL

Sardar Patel Road, Secunderabad

Phone : 72106 (4 Lines)

Grams :—' PERCYS '

Air-conditioned Rooms & Suites—Radio &
Telephone in all rooms—Fully Licensed Bar.

When in Hyderabad stay at:

THE ROYAL HOTEL

(Estd: 1929)

Opp. Nampalli Rly. Station, Hyderabad (A.P.)

Vegetarian & Non-Vegetarian Sections

Phones: 35333, 35334 Grams: "PASSENGER"

Radio Hotel.—Rashtrapati Road, Secunderabad.
Ritz Hotel.—Hill Fort Palace, Hyderabad.
Rock Castle Hotel.—Jubilee Hills, Hyderabad 4 A.P.
Royal Hotel.—Nampalli, Hyderabad.
Taj Mahal Hotel.—King Kothi Road, Hyderabad.
Taj Mahal Hotel.—Sarojini Devi Rd., Secunderabad.
Welcome Hotel.—Opp. Rly. Station, Secunderabad.
Whitehall Hotel.—Sardar Patel Road, Secunderabad 3.

INSURANCE COMPANIES

CO-OPERATIVE GENERAL INSURANCE SOCIETY LTD.—
H.O. Narayanguda, Hyderabad 29. Phones: 52045, 52046,
45282; Grams: "COOPGEN"; Transacts Fire, Marine
and Miscellaneous; Branches: Bombay, Calcutta, Delhi,
Lucknow, Madras, Eluru, Vizianagram, Nanded, Indore,
Jaipur, Nellore, Sangli, Meerut, Muzzafarnagar, Chandigarh,
Bangalore, Guntur, Ahmedabad.

IRON AND STEEL FURNITURE MANUFACTURERS

Godrej & Boyce Mfg. Co. Ltd.—Abid Road, Hyderabad.
Hind Industrial Works.—Maharajgunj, Opp. Telephone Exchange,
Hyderabad.
Hyderabad Allwyn Metal Works Ltd.—Sanatnagar, Hyderabad 18.
Tata Iron & Steel Co. Ltd.—2, Rashtrapati Road, Secunderabad.

JEWELLERS

TOTARAM SAGARLAL & SONS.—Jewellers, Importers,
Exporters, Handlooms, Handicrafts and Curios Dealers;
Abid Road, Hyderabad (A.P.) India.

MACHINERY MANUFACTURERS AND DEALERS

Andhra Foundry & Machine Co. Ltd.—28, Sarojini Devi Road,
Secunderabad.
Andhra Machinery Corporation.—8569, M. G. Road, Secunderabad.
Andhra Pradesh Machinery Supply Corporation.—M. G. Road,
Secunderabad.
Andhra Machine Tools Corporation.—Nizam Shahi Road, Hyderabad.
Batliboi & Co. (Props. Bhogilal Leherchand P. Ltd.).—New Mody
Building, Rashtrapati Road, Secunderabad.
Belde Engineering Co.—6549, Rashtrapathi Road, Secunderabad.
Commercial Trading Corporation.—Ranigunj, Secunderabad.
Dominion Engineering Corporation.—P. Box 37, Secunderabad.
Electronic & Engineering Instruments Mfrs. Corporation.—C-11,
Industrial Estate, Hyderabad 18.
Ganesh Machinery Traders.—Rashtrapati Road, Secunderabad.
Hyderabad Engineering Corporation.—5-4-561, Narayanguda,
Hyderabad.
Industrial Stores Co. Hyderabad Ltd.—11, Durga Bhavan, Rashtra-
pathi Road, Secunderabad.

Kesari Hanuman Engineering Works.—Musheerabad Road, Hydera-
bad.
Krishna Engineering Workshop.—Industrial Area, Azamabad,
Hyderabad 20.
Murutza Mechanical Works.—350, Goal Bungalow, Hyderabad.
Praga Tools Corp. Ltd.—15, Saifabad, Hyderabad.
Rayyat Commercial Corporation Ltd.—141, Kingsway, Secunder-
abad.
Sadanand Engineering Works.—19-1, Azamabad, Hyderabad 20.
Southern Engineering Works.—Station Road, Kachiguda, Hyder-
abad.
Sree Vishwakarma Mechanical & Engineering Works.—8555, M. G.
Road, Secunderabad.
Swastik Engineering Works, M. G. Road, Secunderabad.
Textool Co., Ltd.—8668, James Street, Secunderabad.
Voltas Limited.—87/D, Rashtrapathi Road, Secunderabad.

MINE OWNERS

THE ANDHRA PRADESH MINING CORPORATION LTD.

N. S. F. Building, B-1-174,

Fateh Maidan Road,
Hyderabad-4.

Phones : 35677, 38401-38405.

Grams : "MINICORP".

NEWSPAPER AGENTS

Pinto & Co., J. C.—Agents for *The Times of India* & Allied Publica-
tions. Sarojinidevi Road, Secunderabad.

PAINTS, ENAMELS AND VARNISHES

Anvesh Paint & Chemical Industries.—Vidyanagar, Hyderabad.
Gujarat Paints & Hardware Mart.—Afzalganj, Hyderabad.
Hyderabad National Industries.—Sultan Bazar, Hyderabad.
The Hyderabad Oil & Paint Co., Ltd.—Industrial Area, Azamabad,
Hyderabad.
Paints & General Equipment Co.—Opp. Ashok Talkies, Hyderabad.

PAPER MERCHANTS

HYDERABAD

Ashoka Traders.—Abid Road, Hyderabad.
Cheelampalli Narsappa.—Afzalganj, Hyderabad.
City Paper Mart.—Siddiamber Bazar, Hyderabad.
Fidali Mohd. Ali.—22-7-7, Osmania Bazar, Hyderabad.
Hyderabad Paper Syndicate.—1144, Osmania Bazar, Hyderabad.
Kagaz Ghar.—Abid Road, Hyderabad.
Kushalchand Pvt. Ltd., Singhvee Bhavan, Tilak Road, Hyderabad.

SECUNDERABAD

B. V. R. Balreddy & Co.—137, Parklane, Secunderabad.
Dachepalli Kistiah & Sons.—General Bazar, Secunderabad.
India Paper Mar.—General Bazar, Secunderabad.
Komma Veeriah & Sons.—Tobacco Bazar, Secunderabad.
Mysore Paper Corporation.—6938/3-A, General Bazar, Secunderabad.
Prabath Paper & General Stores.—Rashtrapathi Road, Secunderabad.
Shah Brothers.—General Bazar, Secunderabad.

PEST CONTROL

PEST CONTROL (INDIA) PRIVATE LTD.

Consulting Entomologists — Termite

Control—Disinfestation—Fumigation Service.

Address : 6-1-1070/1, Lakdikapul, Raj Bhavan Road,
Hyderabad 4. Phone : 35191

Head Office : Yusuf Building, Mahatma Gandhi Road,
Bombay-1.

(For Further details please see Bombay Commercial
Firms Section.)

PHOTOGRAPHERS & PHOTOGRAPHIC MATERIALS DEALERS

CENTRAL STUDIO.—Bashir Bagh, Hyderabad. Phones : 32355-
75322. Grams : "CENTUDIO"; "By Appointment to the
President of India"; For everything Photographic and
Cinematic.

PIPES AND FITTINGS

Commercial Trading Corporation.—Ranigunj, Secunderabad.
C. P. Shah & Brothers.—Ranigunj, P.O. Box 103, Secunderabad ; Nampally, Hyderabad.
Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad.
Indian Hume Pipe Co. Ltd.—Industrial Area, Azamabad, Hyderabad.
Industrial Stores Co. Hyderabad Ltd.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.
M. K. Mudliar & Sons.—8059, Rashtrapathi Road, Secunderabad.
National Sanitary Engineering Co.—149, United Mansion, Rashtrapathi Road, Secunderabad.

PLASTIC PRODUCTS MFRS. & DEALERS

HYLAM LTD.—Sanathnagar, Hyderabad-18; Phones: 33470, 33476, 33479; Regd. Office: 183-184, Rashtrapathi Road, Post Box 117, Secunderabad-3; Phone: 74843; Manufacturers of **HYLAM** Laminated Sheets and Tubes for industrial applications; **HYLAM** Copper-clad Laminates for printed circuits; **DECOLAM** decorative laminated sheets for furniture surfacing and panelling; **HYLAK** Polyester resins for car bodies, boat hulls, corrugated roof light sheets, machine housings, helmets, chemical tanks, button making sheets, potting of electrical ballasts, embedding of botanical specimens and novelty articles, surface coating and general purpose laminating; **HYLAK** Phenolic moulding materials for the manufacture of telephone bodies and handset radio cabinets, instrument cases and special grades for the manufacture of electrical accessories, etc.; **HYLAK** Phenolic Resins for Shell Moulds and Cores, Neoprene Upgrading, Phenolic Varnish for Coating and many other Industrial applications. Sole Selling Agents: Bakelite (India) Pvt. Ltd., Bombay, Delhi, Calcutta; Distributors for South India: Best & Co. Pvt. Ltd., Madras, Bangalore, Coimbatore.

SANATHNAGAR POLYTHENE INDUSTRIES

Osmangung, Hyderabad-12.

Manufacturers of Plastic Bags, Sheet, Vacuum, Blow & Injection Articles.

Phones: 44055, 39197, 41054, 48043

Grams: "HANUMAN"

PUMPS & PUMPING MACHINERY

WATER SUPPLY SPECIALISTS PRIVATE LTD.—2670-74, Ghasmandy Road, Secunderabad (A.P.). Phone: 73889, Grams: "PUMPMEN"; H.O.: 8, Hamam Street, Bombay-1; Branches: Calcutta, Madras & New Delhi; Sole Agents for Myers Pumps; Manufacturers of 'WASP' Pumping sets etc.

RADIO, ELECTRONIC & RADIO PARTS MFRS. & DEALERS

HYDERABAD

Bharat Radio Service.—Sultan Bazar, Hyderabad.
Hyderabad Radio House.—Abid Road, Hyderabad.
Modern Radio Electric House Ltd.—Sharah-e-Osmani, Hyderabad.
National Radio Co.—Sultan Bazar, Hyderabad.
Radio Instruments Associates Private Ltd.—1-10-84, Begumpet, Hyderabad-16.
Radio Waves.—4-5-433, Sultan Bazar, Hyderabad 17.
Universal Trading & Radio Co.—1240, Abid Road, Hyderabad.

SECUNDERABAD

Bharat Trading & Radio House.—Rashtrapathi Road, Secunderabad.
Cine Traders.—Ghasmandi Road, Secunderabad.
Eastern Electric & Trading Co.—2538, Rashtrapathi Road, Secunderabad.

EMSON ENGINEERING CORPORATION.—142, Rashtrapathi Road, Post Box 1573, Secunderabad 3. Phone: 72232.

General Electric Co. (India) Ltd.—Ghasmandi Road, Secunderabad.
General Radio & Appliances Pvt. Ltd.—8092/1-2, Rashtrapathi Road, Secunderabad.
Secunderabad General Radio Service.—Rashtrapathi Road, Secunderabad.

REFRIGERATORS (DOMESTIC)

Belde Engineering Co.—6549, Rashtrapathi Road, Secunderabad.
Deccan Engineering & Refrigeration Co.—133, Kingsway, Secunderabad.

EMSON ENGINEERING CORPORATION.—142, Rashtrapathi Road, Post Box 1573, Secunderabad. Phone: 6232.

Hyderabad Allwyn Metal Works Ltd.—Sanatnagar, Hyderabad 18.
Universal Trading & Radio House.—1240, Abid Road, Hyderabad.
Usha Refrigeration Industries.—183/184, Rashtrapathi Road, Secunderabad.

SANITARY ENGINEERS AND DEALERS IN SANITARY GOODS

Anand Sanitary Engineering Co.—4-3-91, Rashtrapathi Road, Secunderabad.

Aurora Sanitary Engineering Co.—1-D, Rashtrapathi Road, Secunderabad.

Barman Brothers.—Barman Building, Gunfoundry, Hyderabad.

D. Balaram & Sons.—Shahrah-e-Osmani, Hyderabad.

ITALIA MEHTA & CO.—3-6-333, Bashir Bagh Road, Hyderabad 29 A.P. Phone: 35127. Grams: "PLUMBERS."

ITALIA MEHTA SALES CORPORATION.—3-6-333, Bashir Bagh Road, Hyderabad-29 AP.; Phone: 35127; Grams: "PLUMBERS"; Local Authorised Distributors: Hindustan Twyford's Sanitarywares and Vitrum Venetian Tiles.

K. Karunakar & Sons.—Reddy Hospital Bldgs., Tilak Road, Hyderabad.

M. K. Mudaliar & Sons.—8059, Rashtrapathi Road, Secunderabad.

National Sanitary Engineering Co.—149, United Mansion, Rashtrapathi Road, Secunderabad.

Pallonjee Eduljee & Sons.—Gunfoundry, Hyderabad.

SCIENTIFIC INSTRUMENTS

Electronic & Industrial Instruments Co. Private Ltd.—B-17, Industrial Estate, Hyderabad-18 (A.P.).

Scientific Engineering House Ltd.—A-10-335, Bashir Bagh, Hyderabad.

Scientific Instrument Co.—30, Sultan Bazar, Hyderabad.

Vijaya Scientific Equipments.—Rashtrapathi Road, Secunderabad.

Zodiac Scientific Works.—Anilweld Mesh Compound, Sanatnagar, Hyderabad 18.

TRANSPORT COMPANIES

Azad Motor Transport Co.—Karbala Maidan, Secunderabad 3.

Bombay Hyderabad Motor Service.—116, General Bazar, Secunderabad 3.

Deccan Transport Co.—Opp. Rly. Station, Secunderabad.

General Construction and Transport Syndicate.—Abid Road, Hyderabad.

Madras Bangalore Transport Co.—8006, Ghasmandi, Secunderabad.

Savani Transport.—403, Nizamshahi Road, Hyderabad.

United Transport Co.—Mukhtarganj, Hyderabad.

WATCHES AND CLOCKS DEALERS

HYDERABAD

Bharat Watch Co.—4, Malipalli.
Indo Swiss Watch Co.—Abid Road.
Prince Watch Co.—Abid Road.
United Watch Co.—Abid Road.
Wheemi Watch Co.—840, Abid Road.

SECUNDERABAD

Bombay Watch Co.—Mahatma Gandhi Road.
Kacharani Stores.—General Bazar.
Nathumal Bros.—Park Lane.
Ramesh Watch Co.—Park Lane.

DELHI—COMMERCIAL FIRMS

A. B. Pandit & Co., 6A, Connaught Place, New Delhi 1.
Abrol & Co., R. C. P. Ltd., 20, Feroze Gandhi Road, New Delhi 14.

ACME COMPANY, Patent and Trade Mark Attorneys, Nizamuddin East, New Delhi-13. Phone: 619639, Chandni Chowk, Delhi-6; Phone: 265776; Grams: 'TRADEMARK' (Estd. 1923).

Addison & Co. Ltd., Jangpura Extension, New Delhi 14.

Advance Electronics, Jogdhian Colony, Chandni Chowk, Delhi 6.

A. Das & Co., 74, Sadar Bazar, Delhi 6.

Advani & Co. P. Ltd., Chawri Bazar, Delhi 6.

A. F. Ferguson & Co., Scindia House, New Delhi 1.

Agents & Distributors P. Ltd., 6/5571, Nal Sarak, Delhi 6.

Aggrellos & Co., 11-B, Netaji Subhash Marg, Delhi 6.

Agfa Gevaert Ltd., 22A, Asaf Ali Road, New Delhi 1.

Ahuja & Co., H.S., 4/68, Punjabi Bagh, Rohtak Road, Delhi 26.

Air France, Allahabad Bank Building, New Delhi 1.

Alfred Herbert (India) Private Ltd., "Gulati Mansions", 4-10 Asaf Ali Road, Delhi-Ajmer Gate Scheme, New Delhi 1.

Allenberry & Co. (Pvt.) Ltd. 10, Darya Ganj, Delhi 6.

ALLIED AGENCIES, 1399, Pahari Imli, Jama Masjid, Delhi-6; Phone: 261775; Grams: "SERVEALL"—Delhi and 9-Okhla Industrial Estate, New Delhi-20; Phone: 73279.

Allied Distributors & Co., DCM Premises, Bara Hindu Rao, Delhi 6.

All India Film Corp. Ltd., K. Block, Connaught Circus, New Delhi 1.

All India Finance & Commerce Ltd., K. Block, Connaught Circus, New Delhi 1.

Amar Bharat Industries Ltd., K. Nalk, Paharganj, New Delhi 1.

Amar Co. P. Ltd., Katra Hussain Bux, Khari Baoli, Delhi 6.

Ambassador Travels P. Ltd., 60, Regal Building, New Delhi 1.

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Complete advertising through Press, Out-door, Cinemas etc. Efficient, Dependable & Personalised Service Assured.

Member : I.E.N.S.

Phone : 272729.

Hind Publicity Service.—270, Kamla Market, New Delhi 1.

Hindustan Publicity Corporation.—21, Darya Ganj, Delhi 6.

HINDUSTAN THOMPSON ASSOCIATES LTD.—142, Sunder Nagar, New Delhi-11. Phones : 618364, 618365.

India Advertising Service, 7/D, Rajouri Garden, New Delhi 27.

INTERADS ADVERTISING (P) LTD.—4/24-A, Asaf Ali Road, New Delhi-1 ; on the Government of India Panel, Fully recognised, Planned Advertising with up-to-date Media Selection & Marketing Research Depts. Also at Bombay, Calcutta, Madras, Jullundur, London and Beirut. Associates all over the world ; Phones : 272324 & 272325.

Jupiter Publicity Co.—G. B. Road, Delhi 6.

Laurels Publicity Service Ltd.—32/M, Con. Circus, New Delhi 1.

Marketing Advertising Associates P. Ltd.—25-1, Asaf Ali Road, New Delhi.

NATIONAL ADVERTISING SERVICE PRIVATE LTD.—121, Golf Links, New Delhi-3. Grams : "JEYENJEYN" New Delhi ; Phone : 61-8230 ; Regd. & Head Office : Khorshed Bldg., Sir P. M. Road, Bombay 1 (BR).

NATIONAL PUBLICITY SERVICE

A-6, Connaught Place, P. O. Box 94, New Delhi-1.

Phone : 42814.

An organisation for complete advertising ; Serving Industrialists of National & International repute for over 17 years ; Accredited by The Indian & Eastern Newspaper Society ; The Directorate of Advertising & Visual Publicity, Government of India ; The Indian Railways ; The A.I.R. Commercial Broadcasting Service ; Member : Audit Bureau of Circulations Ltd., Advertising Agencies Association of India.

NEWFIELDS ADVERTISING PRIVATE LTD.—3/4-A, Asaf Ali Road, New Delhi 1 ; Fully Accredited Advertising Agents and Publicity Consultants with Connections all over the World ; Member A.B.C., A.A.A.I., I.E.N.S., Government of India Panel and International Markets Advertising.

Partap Advertising Agency.—1/8-B, Asaf Ali Road, New Delhi 1.

PIONEER PUBLICITY CORPORATION.—20/UB, Jawahar Nagar, Delhi-7 ; for best Hoarding Sites in Northern India.

PRATIBHA ADVERTISING.—Advertising Agents & Consultants ; 66, Babar Road, New Delhi-1. Phone : 47782 ; Grams : "PRATIBHA" ; Offices at Bangalore, Bombay & Poona.

Press Syndicate Ltd.—8, Parliament Street, New Delhi 1.

RAMA PUBLICITY SERVICE PVT. LTD.

Nai Wara, Delhi-6.

Specialists in Press advertising, Hoardings, Neon Signs, Cinema Slides & Films, Buses, Reverse of Match Boxes, Kiosk, Railways ; Authorised Agents of Radio Ceylon in India.

Phone : 263385.

Surjit Advertising Service.—E27, Kirti Nagar, New Delhi 15.

Universal Advertisers.—4, Jamna Bhavan, Asaf Ali Road, New Delhi 1.

VASUDEVA PUBLICITY SERVICE.—50-M, Connaught Circus, New Delhi-1. Leading Advertising Agents in Northern India.

ADVERTISING GIFTS & NOVELTIES

AARCEE PLASTIC & METAL INDUSTRIES PVT. LTD.

Flat No. 21-A, Shanker Market, Connaught Circus, New Delhi-1.

Creators of Novelties & Producers of Decoration & Gift Articles, Advertising Media, Diaries, Wallets, Brief Cases, Key Chains, Banners etc., Silk Screen Printers.

Phones : 44183, 221384.

BOMBAY BAG FACTORY

3377, Baghichi Achheji, Bara Hindu Rao, Delhi.

Mrs. of Bags, Purses, Diary Covers, Files, writing Sets, Inflatable toys and other Novelties in soft plastic, PVC Sheets, for Compliments, Presents or sale.

Phone : 225115.

AGRICULTURAL MACHINERY

Escorts Ltd.—Pratap Bldg., Connaught Circus, New Delhi 1.

Gardners Corporation.—66, Industrial Area, Okla, New Delhi 20.

GHAZIABAD ENGINEERING CO. (P.) LTD.—42, Janpath, New Delhi; Manufacturers of HARSHA Agricultural implements, Trailers and Harsha Household Electrical Appliances; Distributors for Soviet Agricultural Tractors, Earth-moving Machinery, Mico & Bosch Fuel injection Equipment, Czechoslovak Dumpers, Mobile Cranes, Fork Lift Trucks & Diesel/Electric Locomotives.

Globe Motors Workshops Ltd.—1/2, Jhandewalan, Delhi 5.

Kapoor Eng. Works.—8218, Roshan Ara Road, Delhi 7.

LANDSBERG INDIA PRIVATE LTD., (Estd. 1959).—Manufacturers of "LANDSBERG" Tractor-drawn, "GOOD-EARTH" animal drawn agricultural implements and "GOODEARTH" Tractors; Technical and Financial collaboration with Messrs. BAYERISCHE PFLUGFABRIK GmbH, Landsberg/Lech, West Germany; Works: NIT, Faridabad (Haryana); Regd. Office: 16-A, Asaf Ali Road, New Delhi-1; Phone: Faridabad: 2192 & 2406; New Delhi: 272273 & 275551; Grams: 'IMPLEMENTS'; Managing Director: M. M. Lal, Executive Director: Arun Joshi.

Larsen & Toubro Ltd.—Express Bldg., Bahadur Shah Zaffar Marg, New Delhi 1.

Pritam Singh & Sons.—Rani Jhansi Road, New Delhi 1.

Saraf Industries.—Saraf Bhawan, 34, Pusa Road, New Delhi 5.

AIR COMPRESSORS

Brady, W. H. & Co., Ltd.—14 F, Connaught Place, New Delhi 1.
Consolidated Pneumatic Tool Co. Ltd.—87, Sunder Nagar, New Delhi 1.

East Asiatic Co., India (Private) Ltd.—Delite Cinema Bldg., Asaf Ali Road, New Delhi 1.

HYDRAULICS & PNEUMATICS (INDIA) PRIVATE LTD.

State Bank Bldg., Chandni Chowk, Delhi-6.

Air Compressors, Spray Painting Machine, Car Washers, Hydraulic Lifts, Tyre inflators and Accessories (Factory Badarpur).

Phone: 276917 (Delhi Office) 82295.

MANJEET ENGINEERING INDUSTRIES

71/1, Najafgarh Road, New Delhi-15.

Mfrs. of "MANJEET" Stationery & Portable Air Compressors from $\frac{1}{4}$ to 20 HP (Electric/Petrol/Diesel Driven) Car, Washers, Spray Painting Units, Tyre Inflating Units, Grease Bucket Pumps & Other garage equipments.

Grams: "AFRICAWALA", New Delhi-15.

Phone: 565688.

Marshall Sons & Co. (India) Ltd.—Marshall House, Hanuman Road, New Delhi 1.

AIR-CONDITIONING AND REFRIGERATION

Ahuja (Refrigeration) Private Ltd.—Asaf Ali Road, New Delhi 1.

AIR CONDITIONING CORPORATION LTD.

64, Ring Road, Lajpatnagar, 111, New Delhi 24.

Manufacturers, Sales & Service, "ACCAIRE" Room Air Conditioners, "ACCOOLER" Water Coolers, "PACKAIR" Packaged Type Air Conditioners, "BUFFALO/ACCO" Industrial Fans and 'ACCO' Cooling Towers, Grams: 'ACCAIRE'

Phone: 625251/52—621275.

American Refrigerator Co. Ltd.—20A, Najafgarh Road, New Delhi 15.
Associated Electrical Industries (India) Private Ltd.—Indra Palace, Connaught Place, New Delhi 1.

Bharat Air Conditioning Corporation.—12/3B, Connaught Place, New Delhi 1.

Blue Star Engineering Co. P. Ltd.—1/23B, Asaf Ali Road, New Delhi 1.

Capital Refrigeration Co.—B-7, Asaf Ali Road, New Delhi 1.

Commercial Refrigeration Co. P. Ltd.—Connaught Place, New Delhi 1.

Eastern Electric & Trading Co.—17E, Connaught Place, New Delhi 1.

Electronics Ltd.—Connaught Place, New Delhi 1.

GARDNERS International

Phone: 43350

Air Conditioning & Refrigeration Specialists. We import, install and service Air Conditioning Plants, Room Air Conditioners, Car Air Conditioners, Refrigerators, Freezers and other electrical appliances. Manufactured by the world's leading manufacturers.
6, Doctor Lane, Near Gole Market, New Delhi.

Hindustan Cold Stores & Refrigeration P. Ltd.—1, Dufferin Bridge, Delhi 6.

Hindustan Refrigeration Stores.—2, Netaji Subhas Marg, Delhi 6.

Ice Machinery Co.—66, G. B. Road, Delhi 6.

Indian Refrigeration Industries.—7/15, Kirti Nagar, New Delhi 15.

Kooler's Refrigeration & Air Conditioning Co.—1, L Block, Connaught Circus, New Delhi 1.

KOOLAIRE PVT. LTD.

44, Janpath, New Delhi-1.

Distributors 'ALLWYN, GEM & GODREY' Refrigerators, Accaire Air-Conditioners, Accooler Water Coolers & manufacturers of Harsha Hot Plates, Kettles, Coffee Percolators, Electric Irons, etc.

Phones: 43923, 221956 (Factory).

Lloyd Electric & Engineering Co.—Punj House, M-13, Connaught Circus, New Delhi 1.

Modern Air-Conditioning Co.—34, Sunder Nagar Market, New Delhi 11.

NATIONAL REFRIGERATION WORKS—Subhash Marg, Delhi 6; Importers & Stockists of Refrigeration and Air Conditioning Machinery, Copper Tubing, Sealed-in Compressors, Freon Cases and Spares, Manufacturers of Cold Storage, Room Coolers and all types of Cooling Cabinets, etc.; Phone: 274041-42; Res.: Mr. Ratan Lal 624460, Mr. K. Kumar — 621844.

Oriental Radio Corporation.—12/4, Asaf Ali Road, New Delhi 1.

PREMNATH MOTORS PVT. LTD.

Premair, Room Air Conditioner 1 H.P. Air-Temp Room

Air Conditioner 1½ H.P., Scindia House, New Delhi.

Phone: 45891.

Refrigerators (India) P. Ltd.—46, Janpath, New Delhi 1.

Refrigerator Service Corporation.—2, Regal Building, Connaught Circus, New Delhi 1.

Surfrige Service Refrigerations P. Ltd.—46, Janpath, New Delhi.

Veer Refrigerating & Air Conditioning Co.—11/4724, Dayanand Road, Delhi 6.

VIRMANI REFRIGERATION & COLD STORAGE P. LTD.—Jhandewala Extension, New Delhi-1.

Volta Ltd.—7/1, Asaf Ali Road, New Delhi 1.

ALUMINIUM

HINDUSTAN CHAINS (PVT.) LTD.

(A Devidayal Enterprise)

Works : G. T. Road, P.O. Pasaunda, Ghaziabad.

Sales Office : 20/1, Asaf Ali Road, New Delhi-1.

Leading manufacturers of ISI 'Devidayal' Aluminium Utensils, 'Expal' Expanded Aluminium & Bicycle Chains etc.

Phone : 2477, 2273/74 (Ghaziabad) ; 273142 (Delhi).

MAHAVIR METAL WORKS PVT. LTD.—477, Bartan Market, Sadar Bazar, Delhi-6 ; Authorised Stockists of Messrs. Hindustan Aluminium Corporation Ltd., Renukoot, for Aluminium Sheets, Coils, Circles and extruded Sections etc., Manufacturers of Aluminium Utensils and quality anodizers ; Phone : 229885, Res. : 74490.

SWASTIKS

8-B, Jindal Trust Bldg.,

Asaf Ali Road, New Delhi-1.

Authorised Distributors for Indal extruded sections, Angles, Channels, Rods, Pipes, Square and Rectangular Tubes and other sections ; also offer Sheets, Coils in Aluminium ; Show Room : Chawri Bazar, Delhi.

Phone : 271064 (New Delhi) 265576, 266429 (Delhi).

AROMATIC CHEMICALS

HIGH PURITY CHEMICALS PVT. LTD.—8/34, Industrial Area, Kirti Nagar, New Delhi-15 ; Manufacturers of 'HPC' Brand Chemicals for Education, Research & Industry.

ASBESTOS PRODUCTS

ASBESTOS MAGNESIA & FRICTION MATERIALS LTD.—(Incorporated with limited liability in England) ; New Delhi Sales Office: Hamilton House, 2nd Floor, Block A, Connaught Place, New Delhi-1 ; Phone : 43605 ; Bombay Sales Office: Bombay-Agra Road, Ghatkopar, Bombay 77 ; Phone : 581491 (9 lines) ; Grams : "ASMAFRIC" ; Sales Offices at Calcutta & Madras.

HINDUSTAN FERODO LTD.—A member of the Turnen & Newall Group ; New Delhi Sales Office: Hamilton House, 2nd Floor, Block A, Connaught Place, New Delhi-1 ; Phone : 43605 ; Grams : "FERODOSTAN." Head Office and Factory: Bombay-Agra Road, Ghatkopar, Bombay 77 (AS). Phone : 581491 (9 Lines). Grams : "FERODOSTAN." Sales Offices : Calcutta & Madras ; Manufacturers of "FIREFLY" Asbestos Textiles, Compressed Asbestos Fibre Jointings, Asbestos Millboard, "LIMPET" Asbestos Sheets and Ferobestos.

**AUTOMOBILES,
AUTOMOBILE PARTS AND ACCESSORIES
MFRS. & DEALERS**

Acme Batteries Private Ltd.—1/485, G. T. Road, Delhi 32.
Aggarwal Motor Co.—Gandhi Motor Market, Kashmere Gate, Delhi 6.

Aggarwal Motor Stores.—M Block, Connaught Circus, New Delhi 1.
Allied Auto Agencies.—28/M, Connaught Circus, New Delhi 1.
American Automobiles.—1008, Hamilton Road, Kashmere Gate, Delhi 6.

American Radio & Automobile Co.—S. P. Mukherji Marg, Delhi 6.
Anand Automobiles.—S. P. Mukherji Marg, Delhi 6.
Aryavarta Auto Supply Co.—698, Hamilton Road, Kashmere Gate, Delhi 6.

ASBESTOS MAGNESIA & FRICTION MATERIALS LTD.—(Incorporated with limited liability in England) ; New Delhi Sales Office: Hamilton House, 2nd Floor, Block A, Connaught Place, New Delhi-1 ; Phone : 43605 ; Bombay Sales Office: Bombay-Agra Road, Ghatkopar, Bombay 77 ; Phone : 581491 (9 Lines). Grams : "ASMAFRIC" ; Sales Offices at Calcutta & Madras.

Asiatic Automobiles.—S. P. Mukherji Marg, Delhi 6.
Associated Engg. Works.—Kashmere Gate, Delhi 6.
Autodeals.—33H, Connaught Circus, New Delhi 1.
Auto Importers.—2584, Hamilton Road, Kashmere Gate, Delhi 6.
Autolines (India).—8, Peareylal Motor Market, Kashmere Gate, Delhi 6.

Automobile Traders.—3262, D. B. Gupta Road, Paharganj, New Delhi 1.

Automotive Manufacturers' Agencies.—2610, Hamilton Road, Delhi 6.

Bansal & Co.—Hamilton Road, Kashmere Gate, Delhi 6.

B. Asa Singh & Sons.—33, Jhandewalan Road, Motia Khan, New Delhi 1.

Berl Motors.—Peareylal Motor Market, Kashmere Gate, Delhi 6.

Bharat Automobiles.—Gandhi Motor Market, Kashmere Gate, Delhi.

Bharat Motor Co.—S. P. Mukherji Marg, Delhi 6.

B. N. Dheer & Sons.—Peareylal Motor Market, Kashmere Gate, Delhi 6.

Bombay Motors.—750, S. P. Mukherji Marg, Delhi 6.

Bombay Sales Corporation.—Peareylal Motor Market, Kashmere Gate, Delhi 6.

British Motor Car Co. P. Ltd.—Connaught Circus, New Delhi 1.

Capital Motor Stores.—1633, S. P. Mukherji Marg, Delhi 6.

Central Automobiles.—2638, Hamilton Road, Kashmere Gate, Delhi 6.

Civil Engineering Co.—Arya Samaj Road, Delhi 6.

Combined Traders.—Gandhi Motor Market, Kashmere Gate, Delhi 6.

Conwest Private Ltd.—Kashmere Gate, Delhi 6.

Delhi Motor & Cycle Co.—48, Janpath, New Delhi 1.

Doaba Motor Stores.—14, Gokhale Market, Delhi 6.

Empire Automobiles.—27, Gokhale Market, Delhi 6.

Evergreen Automobiles.—2641, Hamilton Road, Kashmere Gate, Delhi 6.

FEDERAL AUTO STORES.—Lothin Road, Kashmere Gate, Delhi-6 ; Leading Importers & Stockists of quality Parts for European Vehicles.

Friends United Co.—12A, Bhagirath Palace, Chandni Chowk, Delhi 6.

General Auto Parts Co.—Lothian Road, Kashmere Gate, Delhi 6.

General Automobiles.—D14, A/1, Model Town, Delhi 9.

General Marketing Co.—984, Hamilton Road, Kashmere Gate, Delhi 6.

GLOBE AUTO INDUSTRIES.—B-85/86, Rewari Line Industrial area, Near Rajouri garden, New Delhi-21 ; Manufacturers of Head Lights, Tail lights, Roof Lamps, Parking lamps, Indicator lamps, Rear view Mirrors, Hub caps, Petrol Tank Caps, Plastic Moulded goods & vacuum Metallisation of articles. Phone : 585184. Grams : "GLOBEAUTO."

Globe Automobiles.—S. P. Mukherji Marg, Delhi 6.

Globe Motors Workshops Ltd.—1/2, Jhandewalan, New Delhi 5.

Grand Motors.—Kashmere Gate, Delhi 6.

Guru Nanak Motor Accessories.—Gandhi Motor Market, Delhi 6.

Harrison Motor Co.—Kashmere Gate, Delhi 6.

HIND ELECTRONIC INDUSTRIES

69, Najafgarh Road, New Delhi-15.

Mfrs. of Bimetal Steel Back lead Bronze Bearings for Automobiles, Agricultural & Earth moving Diesel Machinery and also 'DICO' Brand P.T.O. Shaft Belt Pulley attachment for all types, Agricultural Tractors.

Phone : 586787—New Delhi.

Hindusthan Automobiles.—22, Gokhale Market, Delhi 6.

HINDUSTAN FERODO LTD.—A member of the Turnen & Newall Group ; New Delhi Sales Office: Hamilton House, 2nd Floor, Block A, Connaught Place, New Delhi-1 ; Phone : 43605 ; Grams : "FERODOSTAN" ; Head Office & Factory: Bombay-Agra Road, Ghatkopar, Bombay 77 (AS). Phone : 581491 (9 Lines) ; Grams : "FERODOSTAN" ; Sales Offices : Calcutta & Madras ; Manufacturers of "FERODO" Brake & Clutch Linings.

Indian Auto Supply Co.—70, Gokhale Market, Delhi 6.

INTERNATIONAL AGENCIES.—1/1278, Sultan Singh Bldg., Kashmere Gate, Opp. Bus Stand, Delhi 6. Phone : 227759. Grams : "AGENCIES." Proprietor : Mr. K. L. Jain.

JAI BHARAT AUTO INDUSTRIES.—605, Hamilton Road, Delhi 6 ; Phone : 224500/222653 ; H.O. Chaura Bazar, Karnal ; Manufacturers of Fog, Roof, Tail, Parking & Mudguard Lamps, Rear, Screen & Mudguard Mirrors, Plastic Lenses & Spares ; Phones : Office : 205 ; Factory : 569 (Karnal).

Jai Bharat Trading Co.—Naya Bazar & Mori Gate, Delhi 6. Phone : 224686. Grams : "ENGPURZA."

Jain Motor Car Co.—1645/3, S. P. Mukherji Marg, Delhi 6.

Jolly Auto Industries.—82, Gokhale Market, Delhi 6.

Jolly Automobiles Co.—2602, Hamilton Road, Kashmere Gate, Delhi 6.

J. S. Harikishan Singh & Co.—2855-D, Hamilton Road, Kashmere Gate, Delhi 6.

Jallundur Motor Agency (Delhi) Pvt. Ltd.—Kashmere Gate, Delhi 6.
 Kapoor Motor Co.—Kashmere Gate, Delhi 6.
 Kashmir Motors.—S. P. Mukherji Marg, Delhi 6.
 Khosla Automobiles Co.—14, Ramsingh Motor Market, Kashmere Gate, Delhi 6.
 Kohli Motor Store.—Hamilton Road, Kashmere Gate, Delhi.
 Kumar Motors.—1648, S. P. Mukherji Marg, Delhi 6.
 Lakshmi Motor Co.—S. P. Mukherji Marg, Delhi 6.
 Liberty Auto Stores.—1/998, Hamilton Road, Kashmere Gate, Delhi 6.
 London Automobiles.—Gandhi Motor Market, Kashmere Gate, Delhi.

LUK AUTO ANCILLARY (INDIA) LTD.

40-41, Industrial Area, Faridabad.

Original Luk Clutch Plates & Clutches,

Phone : 81-2435-2650-2961.

Regd. Office : Jeevan Vihar, Parliament Street,
 New Delhi.

Phone : 42997.

MANOHAR MOTORS.—P.O. Box 1217, Kashmere Gate, Delhi 6, Phones : 223031 & 220901; Authorised Distributors for Spare Parts for Messrs. Hindustan Motors Ltd., Goetze Piston Rings, Cylinder Liners, Mahle Pistons, 'BLW' Sharma Engine Valves, Reliance Cam Bushes; Stockists for Ferguson Tractor Parts, Payen Talbors Gaskets, Super Seals, Super Brake Parts etc.

Modern Automobiles.—Kashmere Gate, Delhi 6;
 Mohindra Motor Agency.—1/2679, Munshi Ram Bldg., Kashmere Gate, Delhi 6.

Motor Cyclists.—Hamilton Road, Kashmere Gate, Delhi 6.

Motor Replacement Co.—Kashmere Gate, Delhi 6.

Narankari Automobiles.—Pyarelal Motor Market, Kashmere Gate, Delhi 6.

National Automobiles.—Kashmere Gate, Delhi 6.

National Motor Stores.—S. P. Mukherji Marg, Delhi 6.

New Central Automobiles.—Kashmere Gate, Delhi 6.

New India Motors Private Ltd.—Scindia House, New Delhi 1.

New Lakshmi Automobiles.—Kashmere Gate, Delhi 6.

New Standard Automobiles.—S. P. Mukherji Marg, Delhi 6.

Northern India Motor Co.—M/10, Connaught Circus, New Delhi 1.

Onkar Automobiles.—2637B, Hamilton Road, Kashmere Gate, Delhi 6.

Paramount Automobiles.—Gandhi Motor Market, Kashmere Gate, Delhi 6.

Parkash Automobiles.—2630, Hamilton Road, Kashmere Gate, Delhi 6.

PINDI AUTO CORPORATION

17, Nehru Motor Market, Kashmere Gate,
 Delhi-6.

Car Parts Specialists, Leading Stockists & Whole Sellers
 of HINDUSTAN, LANDMASTER, AMBASSADOR & MARK
 II PARTS.

Phone : 223310, Resi. : 226433.

Pioneer Automobiles Co.—Kashmere Gate, Delhi.
 Pioneer Motors.—35, Gokhale Market, Delhi.
 Prem Motor Store.—1630, S. P. Mukherji Marg, Delhi 6.
 Premier Automobile Co.—10, Parliament Street, New Delhi 1.
 Premnath Motors P. Ltd.—A3/15, Jawahar Mal Mansions, Asaf Ali Road, New Delhi 1.

PRESTOLITE OF INDIA LTD.

in

Collaboration with Prestolite International Co.

(Division of Eltra Corporation Toledo, Ohio, U.S.A.).

Manufacturers of Prestolite Automotive Electrical
 Components.

Kundan Mansion, 2-A-3, Asaf Ali Road, New Delhi.

Phone : 271934-35-36.

Prominent Motors (India).—605, Hamilton Road, Delhi 6.
 Punjab Motor Store.—Church Mission, S. P. Mukherji Marg, Delhi 6.
 Raj Motors.—Kashmere Gate, Delhi 6.
 Rama Motor Stores.—S. P. Mukherji Marg, Delhi 6.
 Rattan Motor Store.—Peareylal Motor Market, Kashmere Gate, Delhi 6.
 Ravi Motors.—Gandhi Motor Market, Kashmere Gate, Delhi 6.
 Rawalpindi Automobiles.—1156, Bara Bazar, Kashmere Gate, Delhi 6.
 Republic Auto Traders.—51, Gokhale Market, Delhi 6.
 Rex Automobiles.—Peareylal Motor Market, Kashmere Gate, Delhi 6.
 Royal Automobiles.—Kashmere Gate, Delhi 6.
 Ruby Automobiles.—Minerva Motor Market, Kashmere Gate, Delhi 6.
 Saini Motor Co.—Ram Singh Motor Market, Kashmere Gate, Delhi.
 Saini Rubber Industries.—20-C, Adarsh Nagar, Azadpur, Delhi 33.
 Saran Motors P. Ltd.—Peareylal Bldg., Tolstoy Marg, New Delhi.
 Silverline Motors.—Nicholson Road, Delhi 6.
 Siyaram Bros.—Kashmere Gate, Delhi 6.
 S. N. Kohli & Co., Pvt. Ltd.—Kashmere Gate, Delhi 6.
 Sondhi Motors.—21C, Connaught Place, New Delhi 1.
 Standard Automobiles.—Kashmere Gate, Delhi 6.
 Standard Sales Corporation.—4319, P. Dhiraj, Delhi 6.
 Sunshine Industries.—602, Hamilton Road, K. Gate, Delhi 6.
 Suraj Auto Stores.—2743, Kashmere Gate, Delhi 6.
 Supreme Auto Agency.—6, Gokhale Market, Delhi 6.
 Supreme Motors P. Ltd.—Asaf Ali Road, New Delhi 1.
 Swadesh Automobiles.—1/2734, Kashmere Gate, Delhi 6.
 United Auto Corporation.—1/635, Hamilton Road, Delhi 7.
 Vlr India Motor Co.—Kashmere Gate, Delhi 6.
 Vohra Automobiles.—5, Aggarwal Building, Basti Niz. West, New Delhi 13.
 Western Automobiles (India).—708A, Chotta Bazar, Kashmere Gate, Delhi 6.

AUTOMOBILE & ANCILLARY INDUSTRIES

Associated Engg. Works Ltd.—Kashmere Gate, Delhi 6.
 Auto Lamps Ltd.—6, Alipur Road, Delhi 6.
 Auto Pins (India) Regd.—Kashmere Gate, Delhi 6.
 Goetze (India) Pvt. Ltd., H.—2, Connaught Circus, New Delhi 1.
 New India Motors Private Ltd.—Scindia House, New Delhi 1.
 Payen-Talbors Private Ltd.—7, Najafgarh Industrial Area, New Delhi 15.

AUTOMOBILE SPARE PARTS

NORTHERN INDIA MOTOR CO.

M-10, Connaught Circus,
 New Delhi-1.

Importers & Distributors of Garage Tools, Genuine Spares
 for Ambassador, Fiat, Standard, Herald and Continental
 Cars; Agents : 'GABRIEL' Shock Absorbers, Standard
 Batteries and Castrol Lubricants.

Grams : 'CORORING'.

Phone : 44725, 46208; Res. : 79134.

BALL AND ROLLER BEARINGS

Bharat Ball Bearing Co. Ltd.—DCM Premises, Bara Hindu Rao,
 Delhi 6.

Orient General Agencies.—2711, Lohian Road, Kashmere Gate,
 Delhi 6.

Modern Ball Bearing Co.—Kashmere Gate, Delhi 6.

RASHTRIYA BEARING BHANDAR.—11070, Motia Khan, New
 Delhi 55. Phone : 264793; Importers, Agents, Stockists &
 Suppliers of Ball, Roller, Taper Roller, Spherical Roller and
 Thurst Bearings of all popular and famous makes and sizes
 and authorised stockists of 'NORMA' Bearings (in collabora-
 tion with Norma Hoffmann Bearing Co., U.S.A.).

S. O. Kumar & Co.—59, G. B. Road, Delhi 6.

BALL & TAPER BEARINGS

B. CHOWDHURY & CO.—3-E/4, Jhandewalan, New Delhi,
 Phone : 51527; Branch : G. T. Road, opp. Jagraon Bridge,
 Ludhiana, Phone : 3096. Sole Distributors for SKF-Poona
 Ball & Taper Roller Bearings for U.P., Rajasthan, Punjab,
 Haryana, Jammu & Kashmir, M. P. and Himachal Pradesh.

BATTERY MANUFACTURERS & DEALERS

Battery Separators P. Ltd.—Kashmere Gate, Delhi 6.
 Battery Supplying Co.—20, Gokhale Market, Delhi 6.

CHLORIDE & EXIDE BATTERIES (EASTERN) LTD.

'EXIDE' Batteries for Motorcars, Radio, Aircraft etc.
'Exide' Heavy Duty Batteries for Trucks, Buses and
Diesel Starting; 'Exide-Ironclad' Train Lighting Cells,
'Chloride' Stationary Cells and 'Keepalite' Emergency
Lighting Equipment.

Phone : 86-6868 (2 Lines).
3/E1, Jhandwala, Delhi-5.

Spartan Batteries P. Ltd.—S. P. Mukherji Marg, Delhi 6.

STANDARD BATTERIES LTD.,

Distribution, Sales & Service
Jhandewalan Extn., New Delhi-1.

'Standard' Batteries for Car, Truck, Bus, Aircraft etc.,
Special 'PG' Batteries for Train lighting, Stationary and
traction purposes; 'Standard' Switch tripping and
'Contiglow' emergency lighting equipments; 'Standard'
electric trucks—battery operated.

Phone : 567380.

BISCUIT MFRS.

BRITANNIA BISCUIT CO. LTD., THE.—33, Lawrance Road,
Industrial Area, Delhi-35, Phone : 568361/3 (3 Lines). Grams :
'BISCUITBOX', Delhi.

BOLTS, NUTS AND SCREWS

Allied Metal Engineering Works.—Hauz Qazi, Kashmere Gate,
Delhi 6.
Delhi Engg. Works P. Ltd.—G. T. Road, Azadpur, Delhi 32.
Mohindra Brothers.—Chawri Bazar, Delhi 6.
Usha Bolts & Nuts Co.—4804, Phatak Namak, Hauz Qazi, Delhi 6.

BOOKSELLERS, PUBLISHERS AND STATIONERS

AFFILIATED EAST WEST PRESS PVT. LTD.—C-57, Defence
Colony, New Delhi-3; Phone : 626373. Grams : "BOWLINE".
Chairman : W. D. Tenbroeck; Publishers (Concession-
naires for D. Van Nostrand Co. Inc.). Books : Educational,
Technical & Scientific.

Allied Publishers Private Ltd.—13/14, Asaf Ali Road, New Delhi.
Atma Ram & Sons.—Kashmere Gate, Delhi 6.
Bahri Brothers.—243, Lajpat Rai Market, Delhi 6.
Bhawnani & Sons.—8-F, Connaught Place, New Delhi 1.
Capital Book Depot.—4060, Nai Sarak, Delhi.

CENTRAL NEWS AGENCY.—23/90, Connaught Circus, New
Delhi-1 (Branch: 15A/55, W. E. Area, Karol Bagh, New
Delhi-5); Grams : "AKHBARGHAR". Booksellers, Sub-
scription Agents and Suppliers of Indian and Foreign News-
papers, Periodicals and Books; Phones : 45942 & 45943.

Dehati Pusthak Bhandar.—Chawri Bazar, Delhi 6.
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Indian Express (Daily).—Bahadur Shah Zaffar Marg, New Delhi-1.

Kurukshetra (Monthly).—Krishi Bhawan, New Delhi-1.

NAVBHARAT TIMES (Daily).—7, Bahadur Shah Zaffar Marg, Delhi.

RADIANCE VIEWSWEEKLY.—36, Katra Gokal Shah, Near Jama Masjid, Delhi-6. Phone: 264843, Grams: "KHULOOS"—Delhi; Editor: M. Yousuf Siddiqui.

Sainik Samachar (Weekly).—Raisina Road, P Block, New Delhi-1.

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Metal Moulders Ltd., Dudheshwar Road,
Ahmedabad 1.

Metro Wood & Engg. Works P. Ltd.,
Ashram Road, Ahmedabad 9.

Model Machineries Ltd., 641, Kapasia
Bazar, Ahmedabad 2.

Modern Engineering & Moulding Co.,
Opp. Kalyan Mill, Naroda Road, Ahme-
dabad 2.

Nanavati & Co., Ltd., Maskati Market,
Ahmedabad 2.

Newkem Products Corpn. 46, Haribhai Market, Ahmedabad 22.
Nima Trading Company, Relief Road, Ahmedabad 1.
Pargans (I) P. Ltd., 571, Reid Road, Ahmedabad 2.
Pearl Cottage Industries, Patdi State Bldg., Bhadra, Ahmedabad 1.
Pest Control (I) P. Ltd., Anand Bhuvan, Relief Road, Ahmedabad.

PIONEER ENGINEERING WORKS, THE,

Prop. : C. C. Ranchhodlal & Co.,

Manufacturers of

Textile Machinery, C. I. Pipes and Specials, V. Grooved Pulleys, Cocks, Valves, Vacuum Pumps, Electric Hoist, Flooring Tiles making machine, etc., Naroda Road, Ahmedabad.

Phone: 26171. Grams: "MOULDING".

Ramnarayan Sons P. Ltd., 437, Manekchowk, Ahmedabad.

Ramvijay Iron Works, 664, Ghee Kanta Road, Shamal Bechar Chawl, Ahmedabad.

Remington Rand of India Ltd., Kuber Niva, Raikhad, Cross Road, Ahmedabad 1.

Sales & Service Corpn., Motilal Mansion, Kapasia Bazar, Ahmedabad 2.

Sarvodaya Rolling Shutters & Engineering Works, Rakhial Road, Ahmedabad 21.

Scientific Printers' Materials Manufacturing Co., Ltd., Mirzapur Road, Ahmedabad 1.

SHERI VIVEKANAND MILLS LTD., Ahmedabad 21; *Managing Directors*: Shri C. N. Munshaw and Shri B. N. Munshaw. Spindles: 28,788; Loans: ordinary 526, Automatic 48. *Manager*: I. S. Devashrayce.

Singer Sewing Machine Co., Reid Road, Ahmedabad 2.

Spencer & Co., Ltd., Relief Road, Next to Electricity House, Ahmedabad 1.

Swastik Textile Trading Co., Ltd., Motilal Hirabhai Market, Ahmedabad 2.

Tata Iron and Steel Co., Ltd. (Sales Branch Office), Relief Road, Ahmedabad 1.

Testeels Limited, Commercial Ahmedabad Mills Premises, Near Idgah Gate, Asarwa, Ahmedabad 16.

VINIMA CORPORATION

Manufacturers Representatives & Distributors.

Nima House, Relief Road, Ahmedabad-1.

Phone: 20086

Grams: "VINIMA"

Voltas Limited, Ashram Road, Ahmedabad 1.

Vrajesh P. Ltd., 696, Reid Road, Ahmedabad.

Weltex Industrial Agencies Co., 633, Companywala Market, K. Bazar, Ahmedabad 2.

Western India Prospecting Syndicate P. Ltd., Bank of India Bldg., Bhadra, Ahmedabad 1.

Williamsons (I) P. Ltd., Khadia Char Rasta, Ahmedabad 12.

GUJARAT—CLASSIFIED LIST OF TRADES & PROFESSIONS

ACID & ALKALI RESISTING CEMENTS MFRS.

ARCOY INDUSTRIES

CORROSION ENGINEERS

137, New Cloth Market, Ahmedabad-2.

Manufacturers of: Acid & Alkali Resisting Cements, tanks & Vessels lining materials, Pipe Jointing Compounds used in Chemical Plants, Dairies, Refineries, Textile Mills, Canning Industries, Pharmaceutical firms, Pickling Plants etc.

We also offer: ARCONETE Concrete floor-hardener and water proofer to provide heavy wear and tear Resistance for industrial flooring. Ferrum Iron and Aluminium Cements for repair of defective Castings; REFCRETE heat resisting refractory Mortar for jointing fire-bricks etc. ARCOSET the quick Setting liquid for cement Concrete; ARCOY Water proofing Compound which guarantees safety against water seepage.

ADVERTISING & PUBLICITY AGENTS

B. Shah & Co., Nisha Pole Naka, Relief Road, Ahmedabad 1.

CHITRA PUBLICITY CO.—1916, Gandhi Road, Ahmedabad. Grams: "HOARDSITES." Leading Hoarding Publicity Agents in Gujarat, Maharashtra and Rajasthan States. Phone: Office: 22831, Resi: 77509.

Dilip Advertisers, Opp. Peoples' Bank, Khadia, Ahmedabad 1.
General Agency & Exchange Co., Near Jain Temple, 45, Gandhi Road, Ahmedabad.

K. Shah & Co., 91, Ratan Pole, Ahmedabad, Phone: 3350.

Modern Publicity Co., 91, Ratan Pole, Ahmedabad.

Navnitlal & Co., 1161, Bhadra, opp. C.T.O., Ahmedabad.

Paramount Publicity Co.,—Jain Wadi, Manek Chowk, Ahmedabad.

Publicity Parlour, Khadia Char Rasta, Ahmedabad.

Panch Advertisers, Near Model Talkies, Gandhi Road, Ahmedabad.

AIR-CONDITIONING ENGINEERS

Bombay Garage (Ahmedabad) Ltd., Shahibaug Road, Ahmedabad 4.

C. Doctor & Co. Private Ltd. (Estd. 1915).—Bank of Baroda Bldg., Gandhi Road, Ahmedabad 1.

Electro Airconditioning Corporation, 1754, Mirzapur Road, Ahmedabad.

AUTOMOBILE ENGINEERS

MODERN AUTOMOBILES (GUJARAT) PRIVATE LTD.— Automobile Engineers, Distributors of Standard Batteries, Dealers in Cars, Motor Parts and Automobile Accessories with a Service Station and Petrol Filling Station at Nehru Bridge Road, Lal Darwaja, Ahmedabad.

UNITED ENGINEERING WORKS

Manufacturers of

Cylinder Liners (Sleeves), Valve, Guides, V. Seat Bars.

Ramkumar Mills Compound, Saraspur, Ahmedabad 18.

Phone: 26131.

Grams: 'AUTOLINE'.

AUTOMOBILES, AUTOMOBILE PARTS AND ACCESSORIES

Alliance Motor Co., Mirzapur Road, Ahmedabad.

Ashok Automobiles, Station Road, Ahmedabad.

Associated Auto Parts Ltd., Relief Road, Kadia Kulin, Ahmedabad.

ASSOCIATED MOTORS (PRIVATE) LTD.—Mirzapur Road, Ahmedabad; Dealers of Motor cycle and Scooter parts and accessories and allied automobiles; Sole distributors of Royal Enfield Motor cycles, Scooters and Three Wheeler chassis for Gujarat. Sole Distributors of Escorts Ltd., Bombay for their Task Master Unit for Gujarat. Repairs of all kinds are undertaken; Phone: 22444; Grams: "DEMAND."

Bombay Motor Stores, Kapasia Bazar, Ahmedabad.

Eastern Automobiles, Reid Road, Ahmedabad.

G. M. Patel & Sons, Kapasia Bazar, Ahmedabad.

Gujarat Automobiles, Motilal Haribhai Market, Ahmedabad 2.

Gujarat Motor Stores, Reid Road, Ahmedabad.

Hind Auto Service, Mirzapur Road, Ahmedabad.

Jashbhai Patel & Co., Shahpur Bridge Road, Ahmedabad.

Krishna Automobiles, Kapasia Bazar, Ahmedabad.

Lakhia Brothers, Lal Darwaja, Ahmedabad.

Mahendra & Bros., Near Relief Cinema, Salapose Road, Ahmedabad.

Manjar Automobiles, Relief Road, Kadia Kulin, Ahmedabad.

Metro Motors (Ahd.) Ltd., Mirzapur Road, Ahmedabad.

MODERN AUTOMOBILES (GUJARAT) PRIVATE LTD., Automobile Engineers, Distributors of Standard Batteries, Dealers in Cars, Motor parts and Automobile Accessories with a Service Station and Petrol Filling Station at Nehru Bridge Road, Lal Darwaja, Ahmedabad.

Mody Automobiles, Akhanand Road, Bhadra, Ahmedabad.

National Motor Accessories Agency, 1819 Three Gates, Ahmedabad 1.

New International Motors Ltd., Mirzapur Road & Station Road, Ahmedabad.

New Motor House, Station Road, Ahmedabad.

Nirupam Automobiles, Kapasia Bazar, Ahmedabad.

Patel Automobiles, Salapose Road, Ahmedabad.

Prabhat Motor Stores, Station Road, Ahmedabad.

Rama Automobiles, Outside Raipur Gate, Ahmedabad.

R. Ramanlal & Co., Station Road, Ahmedabad.

Shantilal & Co., Kalupur Pachpatti, Near Navgajapir, Ahmedabad.
 Sharma & Co., Sukhlalpur, Naroda Road, Ahmedabad.
 Thakore Motors, Gujarat Samachar's Compound, Khanpur, Ahmedabad.
 United Engineering Works—P.O. Box No. 1023, Ramkumar Mills Compound, Saraspur, Ahmedabad 2.
 United Service Association, Relief Road, Ahmedabad.
 Western Motor Repowering Service, Reid Road, Ahmedabad.

BALL AND ROLLER BEARINGS

A. Raman & Co., Kapasia Bazar, Ahmedabad 2.
 Babu & Co., Gheekanta Road, Ahmedabad.
 Ball Bearing & Machinery Syndicate, Kapasia Bazar, Ahmedabad 2.
 C. Das & Sons.—Near Central Telegraph Office, Bhadra, Ahmedabad 1.
 Hutheesing Engineering Co.—Opp. Elec. House, Lal Darwaja, Ahmedabad 1.
 Kant Engineering Co., Kapasia Bazar, Ahmedabad 2.
 National Ball Bearing Stores, Kapasia Bazar, Ahmedabad 2.
 Regal Trading Co., Mehboob Society Bldg., Khadia Kulin, Ahmedabad.
 Shah Patel & Co., Kapasia Bazar, Ahmedabad 2.

On Approved List of Government & Railways **SHETH STORES TRADING CO.,**

Specialists in: Ball & Roller Bearings
 Authorised Stockists in SKF, NBC, NORMA Bearings.
Distributors: ARUN & ASHOK Plummer Blocks
Ahmedabad Office: Deepak Chambers, Station Rd., Ahmedabad
 Phone: 23470 Grams: "LUCID"
Bombay Office: 238, Masjid Bunder Road, Bombay-3
 Phone: 322757 Grams: "TROLLEY"

Standard Materials Co., Narottam Building, K. Bazar, Ahmedabad 2.

We can undertake any precision work on our newly imported Five Traub Machines, Centreless and Surface Grinders for following:

1. Ball Bearing Bobbin Holders for Textile Ring Frames.
2. Thrust & Needle Bearing.
3. Any Automobile Parts.

Kindly Contact:

WADHWANA MECHANICAL WORKS
 Rampur Dist., Ahmedabad.

BOBBINS & SHUTTLES

Arun Textile Wood Works, Behind Vikram Mills, Saraspur, Ahmedabad.
 Asarva Bobbin Works, Asarva Road, Ahmedabad 11.
 Ashok Textile Industries, Road 3, East Potalia Lake, Saraspur, Ahmedabad.
 Asian Textile Engg. Corp., Opp. Madhav Baug, Ahmedabad.

BEHARAT BOBBINS LTD.

Manufacturers of

All kinds of Bobbins from
 Imported Timber, All Metal Heald Frames and Leno
 Frames from imported parts and Bharat Cement
 flooring and wall tiles.

Office and Factory: Rakhial Road,
 Gomtipur — Ahmedabad.

Phone: 81101, 81729

Grams: "MAYFAIR"

Diamond Bobbins Factory, Khanpur Road, Ahmedabad.
 Frion & Co., Reid Road, Ahmedabad 2.
 Gujarat Wood Works (P) Ltd., Astodia Rati, Kagdapith, Ahmedabad.
 Hind Wood Works & Bobbin Factory, Bhau's Pole, Raipur, Ahmedabad.
 Indian Bobbin Mfg. Co., Dahyabhai Colony, Anil Road, Ahmedabad 2.
 Laxmi Vijay Bobbin Factory, Ramnagar, Sabarmati, Ahmedabad.
 Mafatlal K. Patel & Co., 2, Alkapuri Society, Ahmedabad 13.
 Metro Wood & Eng. Works (P) Ltd., L.I.P. Trust Bldg., Ashram Road, Ahmedabad 9.
 National Bobbin Co., 456, Panch Kuva, Ahmedabad 2.
 New Quality Bobbin Works, New Cotton Mills Compound, Kankaria Road, Ahmedabad.
 Nutan Bobbin Works, Anil Road, Ahmedabad.
 Rajnagar Bobbin Works, Gltamandir Road, Ahmedabad.
 Rajnikant Bobbin Factory, Near Bechar Laskari Hospital, Aunsawad, Ahmedabad.
 Shree Krishna Textile Works, Behind General Post Office, Salapose Road, Ahmedabad.

Shree Sharda Bobbin Works, Ambaji Mata's Mandir, Hathibhai Wadi, Ahmedabad.
 Shree Swastik Textile Wood Works, Parmanand Chawl, Dudheshwar Road, Ahmedabad.
 Shri Maheshwari Bobbin Factory, Anil Road, Ahmedabad.
 Welspun Bobbin Company, Rakhial Road, Ahmedabad 21.

BOLTS, NUTS & SCREWS

MOHANLAL & CO.—1092-B, Lambeshwar Naka, Relief Road, Ahmedabad; 144, Diamond Bldg., Lohar Street, Bombay; Bolts, Nuts and Screws and everything hardware.

CAST IRON PIPES

PIONEER ENGINEERING WORKS, THE, Prop.: C. C. Ranchhodlal & Co., Naroda Road, Ahmedabad 2; Phone: 26171, Grams: "MOULDING".

Venus Engineering Co., Opp. Laxmi Cotton Mills, Kantaria Road, Ahmedabad.

CHEMICAL & PHARMACEUTICAL PRODUCTS MANUFACTURERS

Advance Chemical and Pharmaceutical Works, Lambeswar, Ahmedabad 1.
 Alchemic P. Ltd., Opp. Potalia Tank, Saraspur, Ahmedabad 18.
 Amrit Chemical Works, Naroda Road, Ahmedabad.
 Asiatic Chemical Co., Ahmedabad; H.O. 18/B, Sukeas Lane, Post Box 2101, Calcutta 1; other offices: Masjid Siding Road, opp. Prince's Docks, Bombay 9; 26/46, Birhana Road, Post Box 189, Kanpur.
 Cadila Laboratories, Azad Society, Ahmedabad 6.
 Chemico Textile Industries, Tagara Mill's Compound, Kankaria, Ahmedabad 2.
 Gujarat Pharmaceutical & Chemical Works, Asarva, Ahmedabad.
 International Traders Private Ltd., P.O. Box No. 1059, Narottam Bldg., Kapasia Bazar, Ahmedabad.
 Prakash Chemical Industries, Girdhar Master's Compound, Ahmedabad 2.
 Ramco Chemical Works, 661, Kanuga Mansion, Kapasia Bazar, Ahmedabad 2.
 Santosh Chemical Works, Opp. Potalia Talav, Ahmedabad 2.
 Vishnu Chemical Works, Delhi Darwaja, Ahmedabad 1.

CHEMISTS AND DRUGGISTS

CHUNILAL MAYACHAND MEHTA (Chasmawala), Three Gates, Ahmedabad. Chemist, Druggist & Optician. Phone: 23429. Grams: 'EYEDROPS'. Wholesale Depot: Mehta Building, Biscuit Gally, Pankore Naka, Ahmedabad; Up-country Wholesale Dept., Fakhri Building, opp. Noor Chawl, Biscuit Gally, Pankorenaka, Ahmedabad.

COCKS AND VALVES MFRS.

Abdul Sarraf Abdul Kadar & Sons.—1839, Panchpatti, Kalupur, Ahmedabad 1.

PIONEER ENGINEERING WORKS, THE, Prop.: C. C. Ranchhodlal & Co., Naroda Road, Ahmedabad 2; Phone: 26171; Grams: "MOULDING".

COLOUR MERCHANTS

Ramesh Brothers, Sarangpur, Lati Bazar, Ahmedabad.
 Spectrum Dyes, Sankdi Sheri, Lakhapatel's Pole, Ahmedabad 1.
 Textdyes Corporation, Relief Road, Ahmedabad 1.
 Vega Dyestuff Corporation, Astodia Road, Ahmedabad.

COTTON TEXTILE MILLS

Ahmedabad Advance Mills Ltd., Mill at Shahibag Road, Outside Delhi Gate, Ahmedabad.
 Ahmedabad Jaybharat Cotton Mills Ltd. Mithipur, Ahmedabad.

AHMEDABAD JUPITER SPINNING, WEAVING & MANUFACTURING CO. LTD., THE,

Dudheshwar Road, Ahmedabad.

Products of Mill No. 1: Medium, Fine and Superfine Cotton Textiles viz. Poppins, Twill and Long Cloth, Dobby Dropbox Sucs, Lawns and Dorias, Butta and Blouse Cloth, Jacquard Table Cloth and Serviettes, 2 x 2 Cambrics, Full Voiles and Lenos, 67 per cent TEREENE/33 per cent Cotton Shirtings and Suitings. Available in Bleached, Dyed, Screen Printed, Mercerised and SANFORIZED varieties. (Their Bombay Unit Mill No. 2 is situated at Carroll Road, Parel, Bombay, 13, and Office at Indu House, 15, Dougall Road, Ballard Estate, Bombay 1). Managing Directors Shri Chandulal P. Parikh, Shri Kanchanlal C. Parikh and Dr. Arvind C. Parikh.

Ahmedabad Kaiser-i-Hind Mills Co., Ltd., Outside Raipur Gate, Ahmedabad.

Ahmedabad Laxmi Cotton Mills Co., Ltd., Outside Raipur Gate, Ahmedabad.

Ahmedabad Manufacturing and Calico Printing Co., Ltd., Post Box No. 12, Ahmedabad.

Ahmedabad New Cotton Mills Co., Ltd., Khokhra Mehmedabad, Ahmedabad.

Ahmedabad New Textile Mills Co., Ltd., Nos. 1 & 2, Outside Raipur Gate, Ahmedabad.

Ahmedabad Shri Rama Krishna Mills Co., Ltd., Gomtipur Road, Ahmedabad.

Ajit Mills Ltd., Rakhial Road, Ahmedabad.

Ananta Mills Ltd., Rakhial Road, Ahmedabad.

Aruna Mills Ltd., Naroda Road, Ahmedabad.

Arvind Mills Ltd., Naroda Road, Ahmedabad.

Aryodaya Ginning Mills, Asarwa, P.B. No. 175, Ahmedabad.

Aryodaya Spinning and Weaving Co., Ltd. (Nos. 1 & 2), Asarwa Road, Ahmedabad.

Asoka Mills Ltd., Naroda Road, Ahmedabad.

Bharat Suryodaya Mills Co., Ltd., Post Box No. 125, Ahmedabad.

Bharatkhand Textile Mfg. Co., Ltd., Nos. 1 & 2, Post Box No. 30, Ahmedabad. Mills at Camp Road, Ahmedabad.

Bihari Mills Ltd., Mills near Khokhra Mehmedabad, Ahmedabad.

City of Ahmedabad Spg. & Mfg. Co., Ltd., Kankaria Road, Ahmedabad.

Commercial Ahmedabad Mills Co., Ltd., Near Idgah Chowki, Asarwa, Ahmedabad.

Girdhardas Harivallabhdas Mills Ltd., near Idga Gate, Ahmedabad.

Harivallabhdas Mulchand Mills Co., Ltd., Outside Dariapur Gate, Ahmedabad.

Hathisingh Mfg. Co. Ltd., Near Saraspur Gate, Ahmedabad.

Himabhai Mfg. Co., Ltd., No. 1, Near Saraspur Gate, Ahmedabad.

Jehangir Vakil Mills Co., Ltd., Outside Delhi Gate, Ahmedabad.

Maheshwari Mills Ltd., Shahibaugh Road, Ahmedabad.

Manekchowk & Ahmedabad Mfg. Co., Ltd., Nos. 1 & 2, Outside Dariapur Gate, Ahmedabad.

Marsden Spg. & Mfg. Co., Ltd., Rakhial Road, Ahmedabad.

Monogram Mills Co., Ltd., Rakhial Road, Ahmedabad 10.

Nagri Mills Co. Ltd., Rajpur, Gomtipur Road, Ahmedabad.

Nanikram Sobhraj Mills Ltd., The, Madhowlal Ranchhodlal Colony, Ahmedabad 2.

New Asarwa Mills Private Ltd., P.O. Railwayपुरa, Ahmedabad 2.

New Commercial Mills Co. Ltd., No. 1, Naroda Road, Railwayपुरa Post, Ahmedabad-2.

New Gujarat Cotton Mills Ltd., Railwayपुरa Post, Naroda Road, Ahmedabad-2.

New Manekchock Spinning & Weaving, Co. Ltd., Post Asarwa, Near Idah Gate, Ahmedabad-16.

New National Mills Ltd., Rakhial Road, Ahmedabad.

New Rajpur Mills Co. Ltd., Gomtipur Road, Ahmedabad-21.

Nutan Mills Ltd., Anil Road, Railwayपुरa Post, Ahmedabad.

Patell Mills Co., Ltd., Gomtipur Road, Ahmedabad.

Raipur Mfg. Co., Ltd., Outside Saraspur Gate, Ahmedabad.

Rohit Mills Ltd., Khokhra Mehmedabad, Ahmedabad.

Rustom Jehangir Vakil Mills Co., Ltd., outside Delhi Gate, Ahmedabad.

The Sarangpur Cotton Mfg. Co., Ltd., No. 1 & No. 2 Mills—Ahmedabad.

Saraspur Mills, Ltd., Saraspur Road, Ahmedabad 2.

Shorrock Spg. & Mfg. Co., Ltd., Asarwa Road, Ahmedabad.

Shri Ambica Mills Ltd., Nos. 1 & 2, Kankaria Loco Siding, Ahmedabad.

Shri Arbuda Mills Ltd., Rakhial Road, Ahmedabad 10.

Silver Cotton Mills Co., Ltd., Kankaria Loco Siding, Ahmedabad.

SHERI VIVEKANAND MILLS LTD., Ahmedabad 21. Managing Directors: Shri C. N. Munshaw and Shri B. N. Munshaw; Spindles: 28,788; Looms: Ordinary 526, Automatic 48. Manager: I. S. Devashrayee.

THE TARUN COMMERCIAL MILLS LTD.,

Outside Kalupur Gate, Railwayपुरa Post, Ahmedabad-2.
Manufacturers of Cotton Piecegoods.
Chairman: Seth Pranlal Bhikhabhai, Managing Directors: Seth Indravadan Pranlal, Seth Madhukant Pranlal, Seth Surendra Pranlal.
Phones : 24664 & 23600 Grams : "MAYUR"

Vijay Weaving Works (Vijay Fabrics), 676/12, Railwayपुरa, Ahmedabad.

Vijaya Mills Co., Ltd., Naroda Road, Ahmedabad.

Vikram Mills, Ltd., Outside Saraspur Gate, Post Railwayपुरa, Ahmedabad.

DIESEL ENGINES

Hind Hardware Stores, Kadia Building, Relief Road, Ahmedabad.

Modern Engineering & Moulding Co., Near Kalyan Mills, Naroda Road, Ahmedabad 2.

Nima Trading Co., Nima House, Relief Road, Ahmedabad 1.

Ranjit Electric and Engineering Corporation, Madina House, Relief Road, Ahmedabad.

Sigil (I) Services P. Ltd., Tilak Road, Ahmedabad 1.

S. Kumar & Co., Kutub Manzil, Relief Road, Ahmedabad.

S. Sutarla & Co., 697/82-8, Reid Road, Ahmedabad.

S. N. F. SPARES & ENGINEERING CORPORATION.—Kasturbhai Blocks, Lal Darwaja, Ahmedabad; Phone: 23082, Grams: "UFRIGHT"—Ahmedabad. Distributors for Gujarat for genuine spare parts of Armstrong Siddeley Diesel Oil Engines.

Voltas Limited, Karaka Bldg., Ashram Road, Ahmedabad 9.

DYESTUFFS

ASSOCIATED DYESTUFF INDUSTRIES

Manufacturers of quality Dyes; Khadia Char Rasta, Ahmedabad-I

Phone : 24083, 78086, 25164 Grams: "DYESTRADE"

DYECHEM CORPORATION

Dealers, Representatives & Exporters of Dyestuffs, Khadia Char Rasta, Ahmedabad-I.

Phone: 24083, 78086 Grams: "DYESTRADE"

VEGA DYESTUFF CORPORATION

Nagri Bldg., Astodia Road, Ahmedabad-I.

Phone: 52960 Grams: VEGADYES.
Stockists of Dyes, Chemicals and Resins for Textile and Allied Industries.

ELECTRIC HEATERS

For Heating, Baking, Drying, Boiling—very efficient and highly insulated with imported heating elements suitable to your correct requirements.

Contact

THERMAL AIRO ELECTRICALS

Tavdi Pura, Shahibag, Ahmedabad-4.
Phone : 25611.

ELECTRIC HOIST

PIONEER ENGINEERING WORKS, THE, Prop.: C. C. Ranchhodlal & Co., Naroda Road, Ahmedabad 2; Phone: 26171; Grams: "MOULDING".

ELECTRICAL INDUSTRIES**THE AHMEDABAD ELECTRICITY COMPANY, LTD.**

Managing Agents, Messrs. Killick Industries Ltd., Home Street, Fort, Bombay 1 (B.R.)

Office: "Electricity House", Lal Darwaja, Post Box No. 37, Ahmedabad 1.

J. C. Shah, B.Sc., M.S., Chief Executive.

D. C. Bhardwaj, B.Sc. (Eng.), M.I.E. (India), Administration & Personnel Superintendent.

V. B. Shah, B.Sc., D.I.I.Sc., A.M.I.E.E., Development & Control Superintendent.

R. L. Kelkar — Mains Superintendent.

S. L. Sheth, D.F.H. (Lond.), A.M.I.E.E., A.M.I.E. (India), Power Station Superintendent.

C. V. Kamat, Chief Accounts Officer.

Power House: Sabarmati, Ahmedabad 8.

Head Office Administration Dept.: 8, Graham Rd. (4th floor), Ballard Estate, Post Box No. 109, Bombay 1 (B.R.)

Regd. Office: Killick House, Home Street, Fort, Bombay-1 (B.R.)

FIRE BRICKS & REFRACTORIES**NOWROJI N. VAKIL & CO.,**

Pottery Works.

Naroda Road Ahmedabad.

Manufacturers of Stoneware Drainage Pipes, Fire Bricks and Clay Refractoryware, Rasching Rings etc. Bombay

Office: Sharu Castle, Mohamedally Road, Bombay-3; Phone: 322803.

FLOORING TILES & COMPOSITION MFRS.**SOLANKI & SONS,**

Tagara Mill Compound,

Outside Raipur Gate,

Ahmedabad-22.

Manufacturers of Oxy-Chloride Flooring
In Charming Shades.

FLOUR MILLS (DOMESTIC)

PIONEER ENGINEERING WORKS, THE, Prop.: C. C. Ranchhodlal & Co., Naroda Road, Ahmedabad 2. Phone: 26171, Grams: "MOULDING".

FOUNDERS AND ENGINEERS

PIONEER ENGINEERING WORKS, THE, Prop.: C. C. Ranchhodlal & Co., Naroda Road, Ahmedabad 2. Phone: 26171, Grams: "MOULDING".

FOUNDRY EQUIPMENTS

PIONEER ENGINEERING WORKS, THE, Prop.: C. C. Ranchhodlal & Co., Naroda Road, Ahmedabad 2. Phone: 26171, Grams: "MOULDING".

HOTELS & RESTAURANTS

Cama Hotel, Chandanwadi, Mirzapur Road, Ahmedabad 1.

Capital Hotel, Khanpur, Ahmedabad.

Grand Hotel, Lal Darwaja, Ahmedabad.

Hotel Alankar, Opp. Railway Station, Ahmedabad 2.

Hotel Capital, Chandanwadi, Mirzapur, Ahmedabad 1.

Hotel Esquire, Lal Darwaja, Ahmedabad 1.

Hotel Gulmarg, Lal Darwaja, Ahmedabad 1.

Hotel Plaza, Behind Relief Cinema, Ahmedabad 1.

Hotel Roopa Lee, Lal Darwaja, Ahmedabad 1.

Ritz Hotel, Khanpur Road, Ahmedabad 1.

INK MANUFACTURERS

Harihar Research Works, Mandvi's Street, Ahmedabad.

Navyug Book Depot, Balahanuman, Gandhi Road, Ahmedabad.

Ojas Corporation, New Cotton Mill Compound, Outside Raipur Gate, Ahmedabad.

Parikh & Parikh, Opp. Purnima Restaurant, Gandhi Road, Ahmedabad.

IRON, STEEL AND BRASS WORKS**MALHOTRA IRON & STEEL INDUSTRIES**

Factory: Near Odhav Village, Ahmedabad.

Sales Office:

Gupta Chambers, Outside
Sarangpur Gate, Ahmedabad-2

PIONEER ENGINEERING WORKS, THE, Prop.: C. C. Ranchhodlal & Co., Naroda Road, Ahmedabad 2. Phone: 26171. Grams: "MOULDING".

IRON & STEEL MERCHANTS

Solid, Semi-Hollow, Pop Rivets Steel & non-Ferrous Manufactured in our imported Machinery by highly qualified personnel under strict quality control.

The largest & only factory of its type in the state of Gujarat.

Trade inquiries solicited.

RECHAN RIVETS

29, Udyog Nagar, Mehmedabad,

Dist. Kaira, Gujarat.

Phone: 14.

Grams: 'HARIKRIPA'.

MACHINERY MANUFACTURERS AND DEALERS

Ahmedabad Iron & Brass Factory, Bharatkhand Mills Compound, Ahmedabad 16.

Ahmedabad Victoria Iron Works & Co., Ltd., Dudheswar Road, Ahmedabad 16.

Allied Engineers, Reid Road, Ahmedabad 2.

A. Raman & Co., Kapasia Bazar, Ahmedabad 2.

A. Star Engineering Works P. Ltd., 1730, Haribhai's Dehla, Outside Prem Gate, Ahmedabad 16.

Batliboi & Co. Ltd., Reid Road, Ahmedabad 2.

Bharat Iron & Brass Foundries, Naroda Road, Ahmedabad 2.

Bihari Brothers, Panchkuva, Ahmedabad.

B. P. Engineering Works, 663/4, Gheekanta Road, Ahmedabad.

C. B. Sutaria Brothers, Motilal Hirabhai Market, Cross Lane, Ahmedabad 2.

C. C. Ranchhodlal & Co., Chamunda Road, Naroda, Ahmedabad.

C. Mehta & Co., Gandhi Road, Ahmedabad.

C. Vadilal & Co., Reid Road, Ahmedabad.

Dalpatram Girdharilal & Co., Lunsawad Nariawad, Ahmedabad.

Eastern Hardware & Mill Stores Co., Reid Road, Ahmedabad 2.

Forge & Blower Co., Naroda Road, Ahmedabad 2.

Frion & Co., Reid Road, Ahmedabad 2.

G. A. Latif & Sons, Latif Bldg., Revdi Bazar, Ahmedabad.

General Commercial Agency, Deepak Chambers, Crosslane, Ahmedabad.

Gujarat Corpn. (I) P. Ltd., Naroda Road, Ahmedabad 2.

Gujarat Engineering Co., Opp. Potalia Talao, Saraspur, Ahmedabad 18.

H. Chokshi & Co., Kapasia Bazar, Ahmedabad 2.

Hind Hardware Stores, Kadia Bldg., Relief Road, Ahmedabad.

Hind Sewing Machine Works, Gordhan Mills Compound, Naroda Road, Ahmedabad 2.

Honesty Engineering Works, Dariyapur, Char Rasta, Ahmedabad.

Hutheesing Engineering Co., Opp. Electricity House, Lal Darwaja, Ahmedabad.

India Metal Works, Mirzapur Road, near I.T.O., Ahmedabad 1.

Industrial Machinery Mfrs. Pvt. Ltd., Amraiwaqi Road, Ahmedabad 8.

Industrial Spare Parts Co., Khadia Kun Relief Road, Ahmedabad 1.

Jagdishchandra & Brothers, 131, Rupavari Delhi Chakla, Shak Market, Ahmedabad.

Jagdish Iron & Brass Factory, 1175, Pankore Naka, Ahmedabad 1.

Jayems Engineering Co., Rangwalla Building, Relief Road, Ahmedabad.

Kant Engineering Co., Kapasia Bazar, Ahmedabad 2.
 Kantilal & Co., Gheekanta Road, Ahmedabad 1.
 Karsandas Bechardas & Sons, Amdupura, Saraspur, Vora's Road, Ahmedabad.
 Kashyap Brothers, 2890/A/8, Relief Road, Ahmedabad 1.
 Kasturbhai Ramchand & Bros., Pankore Naka, Ahmedabad 1.
 Kothari Brothers Syndicate, Reid Road, Ahmedabad 2.
 K. Vadilal & Co., Haji Bldg., Mirzapur Road, Ahmedabad.
 Laxmi Moulding Works, Asarva, Haripur Road, Ahmedabad.
 Laxminarayan Sharma & Co., 1647/33/35, Outside Dariapur Gate, Ahmedabad.
 Laxmi Vijay Brass & Iron Works, Gheekanta Road, Ahmedabad 1.
 Machine Products (I) Ltd., Reid Road, Ahmedabad 2.
 Machine Tools & Hardware Corporation, Reid Road, Ahmedabad 2.
 Mahendra & Co., Revdi Bazar, Cross Lane, Ahmedabad 2.
 Manu Engineering Works, Ramkumar Mills Compound, Saraspur, Ahmedabad 2.
 Mistry, Ambalal Jetharam, Gheekanta Road, Ahmedabad 1.
 Model Machineries P. Ltd., Kapasia Bazar, Ahmedabad 2.
 Modern Engineering & Moulding Co., Opp. Kalyan Mills, Naroda Road, Ahmedabad 2.
 National Engineering Works, Tawdipura, Ahmedabad 4.
 Natverlal M. Fadia & Co., Kapasia Bazar, Ahmedabad 2.
 Nima Trading Co., Relief Road, Ahmedabad 1.
 N. K. Fadia & Co., Kapasia Bazar, Ahmedabad 2.
 N. Mohanlal & Co., Pankore Naka, Ahmedabad 1.
 Omkar Iron & Brass Factory, Dariapur, Char Rasta, Ahmedabad 1.
 Oriental Engineering Works, Bapunagar, Ahmedabad 18.
 Oriental Mill Stores Agency, Relief Road, Ahmedabad 1.

PIONEER ENGINEERING WORKS, THE, Prop.: C. C. Ranchhodlal & Co., Naroda Road, Ahmedabad 2. Phone: 26171. Grams: "MOULDING".

Popular Textile Company, Bharatkhand Mills Compound, Ahmedabad 2.
 Prem Roy Bros., L. K. Trust Bldg., Panchkuva, Ahmedabad 2.
 R. Vadilal & Co., Kansara Dehla, Railwaypur Post, Ahmedabad 2.
 Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad 2.
 Ramchandra Iron & Brass Works, Lunsawada, Golwad, Ahmedabad.
 Ramvijay Iron Works, 664, Gheekanta Road, Ahmedabad.
 Ranjeet Electric & Engineering Corporation, Relief Road, Near Jakaria Masjid, Ahmedabad 1.
 Regal Trading Co., Mehboob Society Bldg., Kadia Kuin, Ahmedabad.
 Shetna Iron Works & Co., Kankaria Road, N. C. Mills, Ahmedabad 2.
 Shivalal Vischand Contractor, Near Potalia Tank, Saraspur, Ahmedabad 2.
 Shree Satyanarayan Iron & Brass Factory, Rakhial Road, Ahmedabad 21.
 Sitaram Iron & Brass Works, Lunsawada, Golwad, Ahmedabad 1.
 Smith Engineering Works, Dariapur Rupapari, Ahmedabad 1.
 S. Sutaria & Co., 697-32/6, Dhenlaxmi Market, Ahmedabad 2.
 Standard Materials Co., Kapasia Bazar, Ahmedabad 2.
 Venus Engineering Co., Kankaria Road, opp. Laxmi C. Mills, Ahmedabad 22.

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 A. Hasamkh & Co., L. K. Trust Building, Revdi Bazar, Ahmedabad-2.
 A. H. Rolwala & Co., Amar House, Relief Road, Ahmedabad-1.
 Ahmedabad Hardware Stores, Menit House, Relief Road, Ahmedabad-2.
 A. K. Shah & Co., Revdi Bazar, Ahmedabad-2.
 Alliance Stores Trading Co., Ltd., Station Road, Ahmedabad-2.
 Allied Engineers, Reid Road, Ahmedabad-2.
 Altex Private Ltd., Ramolia Building, Relief Road, Ahmedabad-1.
 Ambalal Kothari & Co., 659/16, Kapasia Bazar, Ahmedabad-2.
 Ambica Textile Traders, Opp. Aranda Hall, Kapasia Bazar, Ahmedabad-2.
 A. M. Shaw & Co., Chetan, Opp. Ellis Bridge Rly. Stn., Ahmedabad 6.
 Arvind Gunvant & Co., Motilal Hirabhai Market, Kapasia Bazar, Ahmedabad-2.
 Ashok Traders, Deepak Chambers, Station Road, Ahmedabad-2.
 Ashwin & Co., 535, Relief Road, Ahmedabad-1.
 Asian Textile Engineering Corporation, Opp. Madhav Baug, Ahmedabad-2.
 Atul Trading Co., 66-Pritamnagar, Ellis Bridge, Ahmedabad-6.
 B. C. Mashruwala & Bros., Kapasia Bazar, Ahmedabad-2.

Bharat Chemical Agency, Vohra's Dehla, Kapasia Bazar, Ahmedabad-2.
 Bharat Leather Co., 1680/1, Khiskola's Pole, Kalupur Road, Ahmedabad-1.
 Bharat Rope & Lace Mfg. Co., Kapasia Bazar, Ahmedabad-2.
 Bharat Traders, 572/A, Reid Road, Ahmedabad-2.
 Bhogilal & Co., 673, Cross Lane, Ahmedabad-2.
 Bhogilal K. Shah & Co., Cotton West Merchant Assoc. Building, Relief Road, Ahmedabad.
 Bihari Brothers, 529/3, Opp. Panchkuva, Ahmedabad 2.
 B. S. Banker & Co., 656, Kapasia Bazar, Ahmedabad-2.
 B. Trikamlal & Co., Gheekanta Road, Bhut's Ambli, Ahmedabad 1.
 C. A. Galiakotwala & Co. Private Ltd., Kapasia Bazar, Ahmedabad-2.
 C. B. Sutaria Bros., Cross Lane, Ahmedabad-2.
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 C. Doctor & Co., Private Ltd., Bank of Baroda Bldg., Gandhi Road, Ahmedabad 1.
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 Chemostize Agency, 566, Reid Road, Ahmedabad-2.
 Chhotalal Balabhai & Bros., Kapasia Bazar, Ahmedabad-2.
 Chokshi Trading Co., 2754/2, Relief Road, Ahmedabad 1.
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 C. U. Kapadia & Sons, Kapasia Bazar, Ahmedabad-2.
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 General Engineering Stores, Kapasia Bazar, Ahmedabad-2.
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 Industrial Spare Parts Co., Kadiakui, Relief Rd., Ahmedabad.
 International Textile Corporation, Reid Road, Ahmedabad-2.
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 Jitendra & Co., Relief Road, Kadiakui, Ahmedabad 1.
 J. Nanavati & Co., 626/32, K. Bazar, Ahmedabad 2.
 Kantilal H. Mehta & Co., Gujarati Friends Society, Ahmedabad 6.
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 Kishore Trading Corporation, 702/5, Reid Road, Ahmedabad 2.
 K. Rasiklal & Co., Cross Lane, Revdi Bazar, Ahmedabad-2.
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 Manubhai Parikh & Co., Badshah Bhuvan, Relief Road, Ahmedabad-1.
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 Mehta Mill Supply Co., 696, Reid Road, Ahmedabad 2.
 Mehta Parikh & Co., Private Ltd., Kapasia Bazar, Ahmedabad-2.
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 Mohanlal Prabhudas & Co., Reid Road, Ahmedabad-2.
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Mulchand Jalkishandas & Co., Reid Road, Ahmedabad-2.
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 Nanavati & Co., Private Ltd., Maskati Market, Ahmedabad 2.
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 National Trading Co., Dhanlaxmi Market, Reid Road Ahmedabad 2.
 Navinchandra C. Zaveri & Co., Fanibanda Building, Reid Road, Ahmedabad 2.
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C. K. Vohra & Co., Sakar Bazar, Ahmedabad.

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Dahyabhai Nanlal & Co., Kapasia Bazar, Ahmedabad.

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Indian Hume Pipe Co. Ltd., Saraspur, Ahmedabad 18.

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K. C. Mashruwala & Co., Reid Road, Ahmedabad.

Madhavlal & Co., Pankore Naka, Ahmedabad.

Natwarlal & Co., Kapasia Bazar, Ahmedabad.

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Gujarat Rubber Works Ltd., Deepak Chambers, Station Road, Ahmedabad.

H. Chokshi & Company, Kapasia Bazar, Ahmedabad 2.

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Ashwin & Co., Dariapur, Ahmedabad.

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Fadia Bros., 1099, Pankore Naka, Ahmedabad.

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Address : Old Rangshala Compound, Bahucharaji Road, Baroda.
Prop. :

ACME MFG. AND AGENCIES (INDIA)

Alli Chambers, Gr. Floor, 4, Dean Lane, P. O. Box No. 1732,
BOMBAY-1.

Phones : Office : 256765; Godown : 372501

Adyashakti Engineering Works, M. Gandhi Road, Baroda.
Agro & Electro Rythm Corporation, M. G. Road, Baroda.
Aims Oxygen Pvt. Ltd., Padra Road, Baroda 5.
Alembic Chemical Works Co. Ltd., Baroda 3.
Alembic Glass Industries Ltd., Baroda 3.
Allied Electrical Engineering Co., Madan Zampa, Baroda.
Allied Electrical Industries, Near Bharat Metal Industries, Juni Rangshala, Bhutdi Zampa, Baroda.
Allied Pharmaceutical Laboratories, Jombubet, Dandia Bazar, Baroda.
Alkha Steel Industrial Corporation, Bank Road, Baroda.
Ambica Iron Works, Nagarwada, Hakim Sahib's Wada, Baroda 1.
Ambica Mills No. 3, Padra Road, Baroda.
Anand Niwas Ltd., Opp. Jubilee Baug, Baroda.
Apollo Pharmaceutical Works, Pratapnagar, Baroda.
Aquapura Corporation, C/o Nutan Photo Studio, Opp. Ahmedabad Pole, Baroda.
A. Sheth & Co., Lokmanya Tilak Road, Baroda.
Ashok Chemicals Ltd., Goyal Gate, Baroda.
Ashok Engineering Works, 2/6, Industrial Estate, Baroda 3.
Ashwin Industries Ltd., Office : opp. Jubilee Baug, Baroda.
Asian Engineering Co., Pratapnagar, Baroda 4.
Atul Tiles & Marbles Pvt. Ltd., 3/16, Industrial Estate, Baroda 3.
Baroda Automobiles, Opp. Jubilee Baug, Baroda.
Baroda Box & Carton Mfg. Co., Behind Railway Station, Baroda.
Baroda Brush Co., Behind Rly. Station Distillery Compound, Baroda 3.
Baroda Commercial Corporation, Bank Building, Mandvi, Baroda.
Baroda Crystal Glass Works Ltd., P.O. Box 87, Pratapnagar, Baroda.
Baroda Distillery Co., Behind Railway Station, Distillery Compound, Baroda 3.
Baroda Engineering and Moulding Works, Baranpura Naka, Pratapnagar, Baroda 4.
Baroda Hotel and Circus House, Race Course Road, Baroda.
Baroda Iron and Steel Industries, Pratapnagar Road, Baroda 4.
Baroda Industrial Mills Co. Ltd., Bhutdi Zampa, Baroda.

Marble & Tiles

Be Proud of your building use famous
'Baroda Green Marble'

Contact :

BARODA MINERALS

13, Pratapgunj, Baroda-2.

Phone : 3529.

Baroda Oil & Mill Store Supplying Co., opp. Suryanarayan Baug, Raopura, Baroda.

Baroda Optical Industries, Hathikhana Road, Baroda.

Baroda Packagings, 3-8, Industrial Estate, Baroda 3.

CAST IRON PIPES

BARODA ROLLING MILLS PRIVATE LTD.,

Chhani Road, Baroda-2.

Manufacturers of C.I.S.S. and Flanged Pipes & Fittings and heavy duty C. I. Sluice Valves and Concrete Mixers.

Baroda Safe Co., Gandhi Gate, Baroda.
Baroda Spg. & Wvg. Co. Ltd., Post Box 57, Baroda.
Bharat Automobiles, Behind Nyaya Mandir, Baroda.
Bharat Chemicals, Pratapnagar, Baroda.

BHARAT CORPORATION

Jogidas Vithal's Street,
P. B. No. 139, Sardar V. P. Road,
Baroda.

Manufacturers of Chemicals and Suppliers to Textile Chemicals, Factory Raw Materials and other Industrial Products.

Phone : 3699.

Grams : "QUALICHEM".

Bharat Machinery Corporation, Kothi Pole, Raopura, Baroda.
Bharat Metal Industries, Pratapnagar Road, Baroda.
Bharat Pickers and Buffers Mfg. Co., Bank Road, Baroda.
Bharat U Staple Mfg. Works, Meera Niwas, Sayajiganj, Baroda.
Bicycle Manufacturing Industries Pvt. Ltd., Leedhar's House, Hath Pole, Baroda.
Bipin Fruit Products, A-2/1, Industrial Estate, Baroda 3.
Blitz Products, Burhanpur, Baroda.
British Radio Corporation P. Ltd., Palace Road, Baroda.
Cambay Saw Mill Textile Accessories Co., Madan Zampa, Baroda.
Central Chemical Industries, Pratapnagar, Baroda 4.
Chandra Engineering and Steel Industries, Padi Pole, Mandvi, Baroda.



CHANDAN METAL PRODUCTS PRIVATE LIMITED

Manufacturers of Steel Furniture & Equipment for
Offices, Homes, Hospitals, Canteens, Libraries etc.
Executive Office & Works : Gorwa Road,
Chemical Industries P.O., Baroda 3.

CHEMICOAT LTD.

Regd. Office & Works :

P. O. Atladra, Dist. Baroda.

Manufacturers of : Metallised Paper and Metallised
Plastic Film, Stamping Foil, Metallic Yarn etc.

Phones : 3834 and 3945

Grams : 'COATEDWARE'

Chemitex Industries, Bank Road, Baroda.

Chetan Industries.—Ramji Mandir Pole, Opp. Govt. Press, Baroda.

Chetan Press P. Ltd., Nava Bazar, Baroda.

DYE-AZO PRIVATE LTD.,

C-2/20, Industrial Estate,
Baroda-3.

Manufacturers of :

Direct & Light Fast Colours & Reactive Colours.

Chimanlal Dalal & Sons, Padi Pole, Mandvi, Baroda.
Coronation Hotel, Sayajiganj, Baroda.
Desai Tin & Pencil Mfg. Co., 28, Alkapuri, Baroda.
Dhiraj Industries, Parikh Estate, Pratapnagar, Baroda 4.
Dinesh Mills Ltd., Padra, Baroda.
Electro Industries Ltd.—Industrial Area, Pratapnagar, Baroda 4.
Everest Industrial Corporation Private Ltd., Pratapnagar, Baroda 4.
Export Advertising Service, Sayajiganj, Baroda.
F. A. Chasmawala Optical Industries, Wadi, Opp. Masjid, Baroda.
G. B. Phadke & Co., Shivaji Road, Baroda.
Ganesh Foundry Works, Pratapnagar, Baroda 4.
Ganesh Machinery Traders, Laheripura, New Road, Baroda.

GASKETS & OILSEALS PRIVATE LTD.,

P.O. Box No. 89, Baroda.

Manufacturers of top grade Produces that include

BANCO ROYAL Gaskets and "BANCO"

Radiators for Automobile and Industrial Engines, Oil coolers, Inter coolers, cuffer coolers etc. etc.

Phone: 3872

Grams: "BANCO"

General Electrical & Mechanical Corporation, Industrial Estate, Baroda 3.

General Mechanical & Engineering Works, Haribhakti's Wadi, Faizkhan Road, Baroda.

General Suppliers & Manufacturers, The, Post Box 50, Baroda.

G. N. Hakim & Sons, Raopura Tower, Baroda.

Good Luck Oil & Paint Co., Post Box 120, Baroda.

Graphite and Mineral Industries, Chhani Road, Baroda.

Green Hotel, Race Course Road, Baroda.

Gujarat Automobiles, Jubilee Baug, Baroda.

Gujarat Machine Tools Industries, 1-10, Industrial Estate, Baroda-3.

Gujarat Rubber Works Ltd., Pratapnagar, Baroda 4.

Gujarat Safe Co., Gendi Gate, Baroda.

Gujarat Trading Co., Mogulwada, Baroda.

Gujarat Woollen Felt Mills, Ranoli (Dist. Baroda).

Halifax Engineering Co., Anandpura, Baroda.

Harihar Industries, Nagarwad, Baroda.

Hari Om Agricultural Tools Mfg. Co., Koyli, Baroda.

Havmor, Opp. Baroda College, Baroda.

Hindustan Electric Motor Co. Ltd., Industrial Area, Baroda 3.

Hindustan Ophthalmic Lens Manufacturers, Opp. Kothi Bus Stop, Baroda.

HINDUSTAN TRACTORS LTD., Vishwamitri, Baroda; Manufacturers of Tractors, Bulldozers, Scrapers and Earthmoving Machinery.**IDEAL STRUCTURALS PVT. LTD.**

Post Box No. 68, Baroda.

Manufacturers of Sheet Metal Products for Trucks and Tractors.

Phone: 3872.

Grams: "IDEAL".

Indian Export Trade Journal, Sayajiganj, Baroda.

Indian Hume Pipe Co. Ltd., Pratapnagar, Baroda.

Jasmann Machine Tool Corporation, Anandpura, Baroda.

Jawahar Hotel, Palace Road, Baroda.

Jaihind Optical Industries, Pratapnagar, Baroda 4.

Jay Hind Safe & Mechanical Works, Gendi Gate Road, Baroda.

Janata Optical Industries, Rajmahal Road, Baroda.

Jayendra Metal Industries Ltd., Sayajiganj, Baroda.

Jopcos Mfg. Co. Ltd., Sayajiganj, Baroda.

Joshi, Pandit & Co., Ltd., Sayajiganj, Baroda.

JYOTI LIMITED

Baroda-3.

Phones: 8352-53, 5265.

Grams: "JYOTIPUMPS".

Bombay Branch: Advent, 12, Foreshore Road, Opp. Sachivalaya, Bombay-1.

Phone: 213329.

Grams: "JYOTIPUMPS"

Manufacturers of Vertical Turbine Pumps, Centrifugal Pumps, Chemical Pumps, Electric Motors, Synchronous Generators, Hydro Electric Generating Units, Starters, Circuit Breakers and Switchboards; other Branches: New Delhi, Calcutta, Madras, Lucknow, Secunderabad & Jaipur.

JYOTI CALOR-EMAG LIMITED

Baroda-3, Phone: 8238. Grams: "JYOTICALOR".

Bombay Branch: "Advent", 12-A, Foreshore Road, Opp. Sachivalaya, Bombay-1.

Phone: 213044.

Grams: "JYOTICALOR".

Sole Selling Agents of Jyoti Electric Motors, Starters, Circuit Breakers, Switchboards and Power Control Gear, other Branches: New Delhi, Calcutta, Madras, Lucknow, Secunderabad, Jaipur.

Kamala Soap Ltd., Sayajiganj, Baroda.

Krishna Niwas Hotel, Behind Nyayamandir, Baroda.

Laxmi Engineering & Mfg. Co., Bhutdi Zampa, Baroda.

Laxmi Optical Industries, Rang Mahal, Opp. Ramji Mandir, Baroda.

Laxmi Safe & Engineering Co., Sayajiganj, Baroda.

Laxmi Steel Industries, Opp. Baroda College, Sayajiganj, Baroda.

Laxmi Vijay Brass & Iron Works, Pratapnagar Road, Baroda 4.

Liberty Motors, Near Jubilee Baug, Baroda.

Liberty Optical Traders, Rajpura Street, Opp. Nazar Baug, Baroda.

M. Amin & Co., Distributors: Burshane Gas, Godrej Steel Products, Fans, Air Conditioners, Refrigerators, Baroda.

Mahagujarat Engineering Industries, Mahavirawamy's Pole, Raopura, Baroda.

Mahalaxmi Brass and Iron Foundry, Padi Pole, Mandvi, Baroda.

Mahalaxmi Iron & Engg. Works, Bahucharaji Road, Baroda.

MAHENDRAKUMAR & CO.,—Laheripura New Road, Baroda.

Phone: 4635, Resi. 5103; Sole Distributors of Jyoti Products for Baroda, Broach and Surat districts, also Distributors of BET. Motors and many more Engineering items.

M. C. Kothari, Booksellers, Publishers & Newspaper Agents (Times of India), Raopura Road, Baroda.

Meghraj Machines, 2/9, Industrial Estate, Baroda 3.

Mercury Pharmaceuticals, 2/B & 2/14, Industrial Estate, Baroda 3.

Merit Oil & Trading Co., Ltd., Mehta Road, Baroda.

Mistry Engineering Works, Shankar Tekri, Kala Bhavan, Baroda.

M. J. Tiles Industries, C/o Manubhai & Co., Opp. Baroda College, Baroda.

Modern Engineering Co., Laheripura New Road, Baroda.

Narayan Chemical Industries, Ganpule Building, Raopura, Baroda.

NEW INDIA INDUSTRIES LTD.

H.O. & Works: Jetalpur Road, Baroda; Foremost Manufacturers of 'INDIA' brand best Egyptian Cotton Healds, Steel Reeds, Brass Reeds, Striking Combs, Dobby Harness without Rubber CYCLE brand wire Healds, All Metal Reeds, Jute Combs, Jute Reeds; SWAR brand Egyptian Cotton Yarn and Staple fibre yarn AGFA Photo Paper and AGFA brand Camera; Bombay office: Industrial Assurance Bldg., 5th Floor, Churchgate, Bombay-20; Phones: 293660, 293704.

Naz Box Mfg. Co., Vorwad, Gendi Gate, Baroda.

New Gujarat Trading Co., Raopura, Baroda.

Olympic Chemical Industries Ltd., Nagarwada, Baroda.

Orient Chemical Co., Modikhana Road, Baroda.

Paramount Insurance Co., Ltd., Raopura, Baroda.

Parikh Transport Co., Behind Jubilee Baug, Baroda.

Patel Tacks Factory, Paramount Industrial Compound, Pratapnagar Road, Baroda.

People's Co-operative Industries Ltd., Madan Zampa, Baroda.

Perfect Engineering Works, Pratapnagar Road, Baroda-4.

PEST CONTROL (INDIA) PRIVATE LTD.

Consulting Entomologists — Termite Control — Disinfection — Fumigation Service

31, Viswas Colony, Alkapuri, Baroda-8.

Head Office: Yusuf Bldg., Mahatma Gandhi Road, Bombay-1.

(For further details please see Bombay Commercial Firms section)

Pioneer Equipment Co. Pvt. Ltd., A 1-5/6, Industrial Estate, Baroda 3.

Poornima Industrial Works, Pratapnagar Road, Baroda 4.

Power Cables Pvt. Ltd., 40, Alkapuri, Baroda 5.

Prakash Food Industries, Behranpura, Baroda.

PRESSED PORCELAIN PRIVATE LTD.,

Post Box No. 18.

Vallabh Vidyanagar (W. Rly.), Gujarat State.

Phone: 98.

Grams: "PORCELAIN".

Manufacturers of Pressed Electro Porcelain Insulators, Fire Bricks, Acid Resisting Articles etc.

SARABHAI ENGINEERING GROUP

Ranoli (Western Railway)

Dist. Baroda.

Sarabhai Engineering group offers Engineering Consultation Services for Chemical, Pharmaceutical and allied Industries; Feasibility Reports/Project Planning and Designing/Supervision of Project Execution Undertaken

SARABHAI MACHINERY

(Division of Sarabhai Engineering Group)

Fabricates equipment for Chemical, Pharmaceutical, Textile and other Allied Industries.

Sole Distributors: BAKUBHAI AMBALAL PVT. LTD.,
13, Wittet Road, Ballard Estate,
Bombay-1.

Also at Ahmedabad, Calcutta, New Delhi,
Madras.

Progress Industries, Madan Zampa Road, Baroda.
Punjab Steel Rolling Mills, Baroda 2.
Quality Engineering Works, Behind Chokhandi Vegetable Market,
Pratapnagar Road, Baroda 4.

RAINBOW TEXDYES CORPORATION

Pratapnagar Road,
Baroda-4.

Phone : 3036/3762, Grams : "Rainbow"

Manufacturers of :

- | | |
|---------------------------------------|--|
| ● ARTEXSOLS
(Solubilised vat Dyes) | ARTEX VAT PASTES
(Suprafix Pastes) |
| ● ARTEXGENS | ARTEX VAT M/F POWDERS
(Colloidal vat Powders) |
| ● ARTEX FASTS
(Stabilised Azoics) | ARTEZOLS
(Reactive Dyes) |
| ● ARTEX VATS
(Vat Dyes) | |

● REGISTERED TRADE MARK

Ramanco Pvt. Ltd., Bajwada, Baroda.
Ravi Engineering Works, Nagarwada, Baroda.
Ruby General Insurance Co., Ltd., Diwali Bhuvan, Raopura,
Baroda.

SAYAJI IRON & ENGINEERING CO. PVT., LTD.

Manufacturers of : 'PRABHAT' Brand Concrete Mixers, Stone Crushers, Portable Stone Crushing & Screening Plants, Electric Hoists, Portable Swivelling Automatic Loaders, Hot Mix Asphalt & Bituminous Mixing Plants, C. I. Pipes & Specials, 'SAYAJI' 6 H. P. Vertical Diesel Engine.

Address : Chhani Road, Baroda-2.

Sakti Files Co., Radhakrishna's Pole, Palace Road, Baroda.
Samrat Hotel, Near Railway Station, Baroda.
Sanitex Chemical Industries P. Ltd., Baroda 3.
Sarabhai Chemicals, Wadi Wadi, Baroda.
Sarabhai Merck Ltd., Post Box No. 80, Baroda 5.
Sarita Soap Works, Wadi Chokhandi, Baroda.
Sayaji Mills Ltd., Baroda 3.
Shakti Engg. Works P. Ltd., New Khanderao Road, Baroda.
Shakti Packing Industries, Laheripura New Road, Baroda.

SATYADEV CHEMICALS PVT. LTD.

P. O. Box 101, Pratapnagar Road,
BARODA.

Manufacturers of Fine Chemicals, Hydroquinone and its derivatives, Metol, Sodium Sulphite, Sodium Bisulphite, Sodium Metabisulphite, Sodium Acetate, Colour Film Processing Chemicals etc.

Shree Dinesh Tiles Factory, Alembic Road, Baroda 3.
Shree Krishna Industries, Chowkhandi, Sahid Market, Pratapnagar Road, Baroda 4.
Shree Ram Engineering & Mfg. Industries, Pratapnagar, Baroda 4.
Shree Shakti P. Ltd., Bapu Sadan, Sayajiganj, Baroda.
Shree Yamuna Mills Co. Ltd., Pratapnagar, Baroda 4.
Shree Uma Transport Co., near Baroda Talkies, Baroda.

SHREYAS CHEMICALS

Dandia Bazar, Baroda-1.

Phone : { Office : 4941
Factory : 8208
Resi. : 8247

Grams : "CHETAN"

Manufacturers of : Commercial, Pure A.R. Grade Acids and Fine Chemicals.

Shri Adyashakti Engineering Works, Mahatma Gandhi Road, Karolia-pole, Baroda.
Shri Suryodaya Transport Co., Near Tarkeshwar, Baroda.
Shroff Chemical Works, The, Raopura Tower, Baroda.
Sigli India Service P. Ltd., New Laheripura Road, Baroda.
S. I. Works Pvt. Ltd., Chhani Road, Baroda.
Spunpipe & Construction Co. (Baroda) P. Ltd., Jamuna Bag, Behind Rly. Station, Baroda.

Radiator Manufacturers

STANDARD RADIATORS PVT., LTD.

Industrial Estate, Baroda-3.

Manufacturers of : Radiators, Radiator Cores and Radiator components for Automobiles, Trucks, Buses, Tractors, Cars, for Stationery Industrial Diesel Engines, Locomotives, Oil Coolers, Air Compressor's Inter Cooler and After Cooler.

Star Chemical Works, Pratapnagar, Baroda.
Star Industries, Dandia Bazar, Baroda.
Sterling Surgical & Industrial Corporation, Keshav Bhuvan, Kothi Pole, Baroda.
Suhrid Geigy Ltd., P. Box No. 48, Wadi Wadi, Baroda.

SUESSEN TEXTILE BEARINGS LTD.

Manufacturers of : Textile Bearings & Pressed Products;
Bombay-Ahmedabad National Highway, No. 8,
Pratapnagar P.O., Baroda-4.

Phone : 3869 Grams : "SUESSENTEx"

SWASTIK ENGINEERING & MANUFACTURING CO. PRIVATE LTD., Bahucharaji Road, Baroda; Structural Engineers and Contractors, Engineering Workshop & Foundry; Manufacturers of Textile Machineries, viz., Folding & Plaiting Machines, Cloth Stamping Machines, Selvedge Printing Machines, Cloth Inspecting Machines, Sample Cutting Machines; Building Construction machinery; 'Harihar' Tilting and Non-Tilting Drum Type Concrete Mixers, other machineries; Flour Mills, Industrial and Domestic, Rotary Oil Mill Decorticators, Rice Flakes or Pova Machines, Building Materials; Engineering and Machinery spare parts etc. Phone : 4101; Grams : "SEMCO"—Baroda.

Swastik Trading Co., Behind Jubilee Baug, Baroda.

Tarun Industrial Corporation, Pratapnagar Road, Baroda 3.

Tensile Steel Ltd., 60, Alkapuri, Baroda.

Textile Aniline & Chemical Co. P. Ltd., Pratapnagar Road, Baroda 4.

Textile Appliances & Instruments Co. P. Ltd., 81, Alkapuri, Baroda.



nothing TRIGON cannot make.

TRIGON METAL SECTIONS

4/15, Industrial Estate,

Gorwa Road, Baroda 3

United India Medical Stores, opp. Secretariat, Baroda.

Vajresh P. Ltd., Kantawalla Bldg., Limdapole, Baroda.

Vannit Industries, A-2/7, Industrial Estate, Baroda 3.

Vasant Engineering Ltd., Pratapnagar, Baroda 4.

Venus Textiles Corporation, Nagarwada, Baroda.

Vishnu Engineering Works, Behind Jubilee Gardens, Kumbharwada, Baroda.

Vishnu Industrial Works, Pratapnagar, Baroda 4.

Vishwakarma Engineering Works, Nagarwada, Baroda.

Vishwakarma Pen Co., Kharivav Road, Baroda.

Vithal Oil Mills Chokhandi, Baroda.

VOLTAMP TRANSFORMERS PVT. LTD.,

5/3, Industrial Estate,

Baroda-3.

Phone : 8227. Grams : "VOLTAMP"

Manufacturers of : 'VOLTAMP' brand Power Distribution and Current Transformers.

Distribution Transformers ranging upto 1600 KVA 33 KV.
Manufacturers of : Oil Filter Machines.

Western India Engineering Co., Padi Pole, Baroda.

Western India Motor Car Co., Salatwada, Baroda.

ZAVERCHAND GAEKWAD PVT. LTD.

Post Box No. 95, Padra Road,
BARODA.

Phones : 4328 and 5477.

Grams : "FLEXICAN".

Manufacturers of world famous Interlock—Flexible Hoses in collaboration with Messrs. Compoflex Co. Ltd., England suitable for conveying Liquids, Gases, and steam under pressure at temperature up to 400°C; Manufacturers of Pliable Tubing for electrical cable armouring and also used for conveying liquids and gases at low pressures in collaboration with Aeroquip Corporation, Jackson, U.S.A.; also manufacture Squarelock Steel Flexible Tubing for Electrical Cable armouring.

SURAT DISTRICT

BARODA RAYON CORPORATION LTD.

P.O. Baroda Rayon, Udhna

(Surat)

Manufacturers of Rayon Yarn, Sulphuric Acid, Anhydrous Sodium Sulphate and Carbon-di-Sulphide.

CHAMPION AUTO BOLT MFG. CO.

Manufacturers of all kinds of Studs & Nuts.

Factory : Plot No. 40, Road 2-B, Udhna, Surat.

Bombay Office : 4, Modi Chambers,

Kennedy Bridge, Bombay-4.

DOSHI METAL INDUSTRIES

Manufacturers of Electrical Heating Elements of various types for Domestic as well as Industrial use such as Oil heaters, Air heaters, Immersion heaters, Kettle Elements etc.

3, Jawahar Road, Udyog Nagar,
Udhna (Dist. Surat).



Sintered Parts & Self Lubricating Bearings

FLEXICONS LIMITED

Udhna (Dist. Surat).

Manufacturers of : Self-Lubricating Bearings and Structural Parts both Ferrous and Non-ferrous.



For Industrial Paper & Boards

JAYANT PAPER MILLS LTD.

Regd. Office : Utran, Dist. Surat.

Phone : 26475.

Bombay Office : Western India House,

Sir P. M. Road, Bombay-1.

Phones : 258845 & 252478.

Central Office : Resham Bhuvan,

Lal Darwaja, Surat-3.

Phone : 26464.

We manufacture : Kraft Paper, File Board, Pulp Board, Grey Board, White Duplex Board, Food Board, Base Paper for Textile Tubes, Cone Board, Ticket Board, Brown Wrapping Paper



METAL PERFORATORS PRIVATE LTD.

Manufacturers of : Industrial Metal Screens in any Sheet Metal & Material, Mild Steel, Stainless Steel, Brass, Copper, Aluminium, Monel & Zinc etc.

Regd. Office & Factory :
Udhna, (Dist. Surat).

Phone: 8310.

Bombay Office : Annes Chambers, Carnac Road, Bombay 1.

Phone: 263001, Telex: 011-2624 Bombay.

Grams: "DUTYBOUND"



NAVSARI OIL PRODUCTS PVT. LTD.

Factory & Head Office : Navsari, Bombay.

Office : Mehta House, Apollo Street, Bombay-1.

Leading Manufacturers and Suppliers of Stearic Acid, Oleic Acid, Glycerine, Metallic Stearates, Fatty Acids in both distilled and undistilled grades, wire drawing Lubricants, Nickel Catalyst for oil hydrogenation.



MADRAS COMMERCIAL FIRMS

A. Boake Roberts & Co. (India) P. Ltd.—1/5, Sever Wells Street, Madras 16.
Abdul Rahim & Bros.—13, Evening Bazar Road, Madras 3.
A. C. E. C. (India) Ltd.—19/21, Muker Nallamuthu St., Madras 1.
Addison & Co., P. Ltd.—158, Mount Road, Madras 2.
Ahamed & Co., A.M.—255, Linghi Chetty St., Madras 1.
Airlines Hoteliers & Caterers (M) P. Ltd.—177/79, Mount Road, Madras 2.
A. J. & Sons P. Ltd., 16, Audiappa Naik St., Madras 1.
Ajanta Art Calendar Mfg. Co., 17, Godown Street, Madras 1.
Albert David Ltd. 19, Sunkurama Street, Madras 1.
Alembic Chemical Works Co. Ltd.—34, Angappa Naick St., Madras 1.
Alex Miller (Madras) P. Ltd.—128, Nyniappa Naick St., Madras 3.
Alfred Herbert India P. Ltd., 1st Line Beach, Madras 1.
Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Amarchand Sobachand.—95, Nyniappa Naick St., Madras 3.
Ambadi Enterprises P. Ltd.—11/12, North Beach Road, Madras 1.
Ambalavana Chettiar & Co., P. Ltd.—P. S. N. S.—14, Mint Street, Madras 1.
Amco Engg. Corpn.—A Super 8-9, Industrial Estate, Guindy, Madras 32.
AMRUTANJAN LTD.—14/15, Luz Church Road, Madras 4. Manufacturers of Amrutanjan Pain Balm, Anoleum, Dermal Ointment, Inhaler, Gripe Mixture and Salofen.
Anuradha (Madras) P. Ltd.—53, Peters Road, Madras 6.
Armstrong Smith Ltd.—106, Armenian Street, Madras 1.
Asbestos Cement P. Ltd., 202, Mount Road, Madras 2.

ASBESTOS, MAGNESIA & FRICTION MATERIALS LTD.,
(Incorporated with Limited Liability in England)
(A member of Turner & Newall group)
Madras Office:
202, Mount Road, Madras 2.
Phone: 88610. Grams: 'ASMAFRIC'.
Bombay Office: Bombay-Agra Road, Ghatkopar, Bombay 77.
Sales Offices at: Calcutta & New Delhi.

Associated Publishers (Madras) P. Ltd.—201, Mount Road, Madras 2.
Auto & Diesel Co. Ltd.—1/155, Mount Road, Madras 2.
Atlas Copco (I) P. Ltd.—150A/2, Mount Road, Madras 2.
Avery Co., Ltd.—16, Armenian Street, Madras 1.
A.V.M. Ltd.—1-A, Arcot Road, Madras 26.
Aynvedashramam Ltd.—100, Gopathy Narayanaswamy Road, T. Naagr, Madras 17.

B. CHOWDHURY & CO.

Engineers and Manufacturers'

Representatives.

11-A/38, Mount Road, Madras 2.

Phone: 88069

For details please see Commercial Firms section—
Bombay.

Badrudin, A. M. & Co., 23, Linghi Chetty St., Madras 1.
Balaram Chetty & Sons, P.V.—74, Acharappan St., Madras 1.
Balliga Lighting Equipment Private Ltd.—C-39-40, Industrial Estate, Guindy, Madras-32.
Balussery Benefit Chit Fund P. Ltd., 3, Singarachari Street, Madras 5.

bajaj

BAJAJ ELECTRICALS LTD.,
Marketing Electrical Consumer goods,
Electrical Engineers, Manufacturers & Contractors,
3/33, Mount Road,
Madras 2.
Phones: 83969
Grams: "SOFTLITE".
For further details please see:
Commercial Firms Section, BOMBAY.

Bapalal & Co., 47/50, Rattan Bazar, Madras 3.
Batlibhoj & Co. Pvt. Ltd.—98 Armenian Street, Madras.
Beardsell & Co. (Private) Ltd., W.A.—8, Second Line Beach, Madras 1.
Best & Co., P. Ltd.—13/15, North Beach Road, Madras 1.
Bharat Pulverising Mills P. Ltd.—1074, Thiruvottiyur High Road, Madras 19.

Biddle Sawyer & Co. (I) P. Ltd.—331/332, Thambu Chetty St., Madras 1.
Bimetal Bearings Ltd., Huzar Gardens, Sembiam, Madras 11.
Binny & Co. Ltd.—7, Armenian Street, Madras 1. Post Box No. 66, Phone: 29171 (6 Lines); Grams: "BINNY".
Binny's Engineering Works Ltd.—Meenambakkam, Madras 61.
Blackwood Hodge (India) Ltd.—6, G. S. T. Road, Madras 16.
Blue Mountain Estates Ltd.—Oriental Bldgs., Armenian St., Madras 1.
Blue Star Ltd.—23/24, Second Line Beach, Madras 1.
Bob Corporation—544, Triplicane High Road, Madras 5.
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Cyanamid India Ltd.—101, Armenian Street, Madras 1.

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Deeth & Co., W. H.—14-15, Second Line Beach, Madras.

Dhruva & Co., A.H.—21, Sembudoss St., Madras.

Dipak Industrial Associates, C-29, Industrial Estate, Madras 32.

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 Southern Constructions Private Ltd.—Lux Avenue, Madras 4.
 Southern Forgings P. Ltd. A-17 & 18, Industrial Estate, Madras 32.
 Southern India Trading Corp.—3, H.D. Rajah Nagar, Eldams Road, Madras 18.
 Southern Industrial Corp. P. Ltd.—99, Armenian St., Madras.
 Southern Languages Book Trust.—441, Poonamallee High Road, Madras 10.
 Southern Roadways Private Ltd.—Express Estates, Madras 2.
 Southern Structurals Ltd.—GDC Bldg., Cathedral Road, Madras 6.
 Speed-A-Way Private Ltd., 35/5, Mount Road, Madras 2.
 Spence Ltd.—24, General Patters Road, Madras 2.
 Spencer & Co., Ltd., Mount Road, Madras 2.
 Sri Rama Machinery Corp. Private Ltd.—5/6, Armenian St., Madras 1.
 Standard Motor Products of India Ltd.—29, Mount Road, Madras 2.
 Standard Printing Machinery Co.—9, Mount Road, Madras 2.
 Steel & General Traders, 19, Sembudoss St., Madras 1.
 Sudarshan Trading Co. Ltd.—Sudarshan Bldg., Whites Road, Madras 14.
 Surajmali Lalubhai & Co.—313, Esplanade, Madras 1.
 T. A. Taylor & Co. Madras Private Ltd.—100, Armenian Street, Madras 1.
 Tarapore & Co., 175/1, Mount Road, Madras 2.
 Tata Iron & Steel Co. Ltd.—108, Armenian St., Madras 1.
 Tata Oil Mills Co. Ltd.—Indian Chamber Bldgs., Esplanade, Madras 1.
 Tecalemit (Hind) Ltd.—150/1/3, Mount Road, Madras 2.
 Thomas & Co. (India) Ltd., A. V.—16, Marshall's Road, Madras 8.

Thos. Cook & Sons Ltd.—4/5, First Line Beach, Madras 1.
 T. I. & M. Sales Ltd.—11/12, North Beach Road, Madras 1.
 T. I. Cycles of India Ltd.—11/12, North Beach Road, Madras 1.
 Tiffin Barytes Asbestos & Paints Ltd.—372/73, Angappa Naick St., Madras 1.
 Tinplate Dealers' Association P. Ltd.—9, Sembudoss Street, Madras.
 Transformer & Switchgear Ltd.—116/117, Moore St., Madras 1.
 Travancore Rayons Ltd.—151, Mount Road, Madras 2.
 Tube Investments of India Ltd.—North Beach Road, Madras 1.
 Tubes & Malleables Ltd.—99, Armenian St., Madras 1.
 Tube Suppliers Ltd.—699, Armenian Street, Madras 1.
 Tullis Woodroffe & Co. P. Ltd., 1/21, North Beach Road, Madras.
 Turner Hoare & Co. Ltd.—1/18, Mount Road, Madras 2.
TYPEWRITER & OFFICE APPLIANCES (INDIA) CO. PRIVATE LTD.—17, Armenian St., Madras 1. Sole Agents—Retaprint offset Printing Machines.
 Union Carbide India Ltd.—590, T. H. Road, Madras 21.
 United Liner Agencies of India Ltd.—7, 2nd Line Beach, Madras 1.
 United Printers Syndicate P. Ltd.—48/42, North Usman Road, Madras 17.
 United Steel Companies India P. Ltd.—150-A, Mount Road, Madras 2.
 Upper India Bearings P. Ltd.—A/23, Industrial Estate, Madras 32.
 Upper India Trading Co. P. Ltd.—1/18, Mount Road, Madras 2.
 V. D. Swami & Co. P. Ltd.—123, Mount Road, Madras 6.
 Vaman Bros.—39, Spurtank Road, Chetput, Madras 31.
 Vernon & Co., Ltd.—11/12, Car Street, Madras 1.
 Vikas Industries, C-23, Industrial Estate, Madras 32.
 Vikrama Engineering Co. (Agencies).—2, Lattia Bridge Road, Adyar, Madras 20.
 Volkart India Ltd.—5/6, Armenian Street, Madras.
 Voltas Limited.—115/116, Armenian Street, Madras 1.
 Vulcan Leval Ltd.—38-C, Mount Road, Madras 6.
 Vummidi Bangaru Chetty & Sons.—28, N. S. C. Bose Road, Madras 1.
 Vummidi Ramiah Chetty Guruswamy Chetty & Co.—23/25, N. S. C. Bose Road, Madras 1.
 Vummidi Manufacturers Private Ltd.—162, Mount Road, Madras 2.
 Water Supply Specialists P. Ltd.—330, Thambu Chetty Street, Madras 1.
 Western India Match Co., Ltd., 38-C, Mount Road, Madras 6.
 Wheatley & Yate.—3/235, Angappa Naik Street, Madras 1.
 Wheel & Rim Co. of India Private Ltd., Sembiam, Madras 11.
 Wheels India Ltd.—37, Mount Road, Madras 6.
 Wilfred Pereira Private Ltd.—2/3, Church Road, Madras 7.
 William Jacks & Co., Ltd., National Bank Building, First Line Beach, Madras 1.
 Wirenetting Industries Corp.—17, Rundalls Road, Vepery, Madras 7.
 World Trade Agencies.—58 Street, Madras 3.
 Wren, Bennett & Co. India Ltd.—25, General Patters Road, Madras 2.

MADRAS CLASSIFIED LIST OF TRADES & PROFESSIONS

ABRASIVES

Ambadi Enterprises P. Ltd.—11/12, North Beach Road, Madras 1.
Best & Co. Ltd.—13/15, North Beach Road, Madras 1.
Carborundum Universal Ltd.—7, Second Line Beach, P.B. No. 1997, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—1st Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras), Ltd.—1/21, North Beach Road, Madras 1.
Grin well Abrasives Ltd.—28, Armenian Street, Madras 1.
L. M. Van Mopeds Diamond Tools I. Ltd., Huzur Gardens, Madras 11.
R. Subbaraman & Co. P. Ltd.—11/12, Second Line Beach, Madras 1.
Vernon & Co. Ltd.—11/12, Car St., Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ADDING, CALCULATING AND ACCOUNTING MACHINES

Facit Asia Ltd.—Perungudi, Madras 41.
Gillanders Arbuthnot & Co., Ltd.—1st Line Beach, Madras 1.
Indian Manufacturers (M) P. Ltd.—35, Mount Road, Madras 2.
International Computers & Tabulators (I) P. Ltd.—L.I.C. Bldgs. 3/18, Mount Road, Madras 2.
Kilburn & Co., Ltd.—153, Mount Road, Madras 2.

ADVERTISING AGENTS AND CONSULTANTS

AJANTA ADVERTISING.—35, Mount Road, Madras 2. Phone: 21079, Grams: "ADINFER"; Head office at Bombay, Branch at Calcutta.
Associated Advertisers & Printers.—36, East Mada St., Madras 4.
Chari Advertising.—24, Errabalu Chetty St., Madras 1.
Clarion Advertising Service Ltd.—150A/2, Mount Road, Madras 2.
Criterion Publicity P. Ltd.—19, Woods Road, Madras 2.
D. V. Advertising.—15, Kavarai St., Madras 15.
Efficient Publicities P. Ltd.—19, Woods Road, Madras 2.
Elegant Publicities.—77, General Patters Road, Madras 2.
Ganesh Publicities.—8, Bells Road, Triplicane, Madras 5.

GRANT ADVERTISING INTERNATIONAL INC.—Safire Theatre Building, 123, Mount Road, Madras-6. Phone: 87357, 86350; Grams: "GRANTCHI," Advertising Agents & Consultants; S. Chatterji, Chief Divisional Manager; Hope S. Willis, Manager; Offices at Bombay, Calcutta, Delhi (37 Branches all over the World).

Hindustan Publicity Bureau.—57, Audiappa Naick Street, Madras 1.
Krishnaswami & Co., V.S.—106, Armenian Street, Madras 1.
L. A. Stronach & Co. (India) Ltd.—30, General Patters Road, Madras 2.
L. R. Swami.—96-A, Mount Road, Teynampet, Madras 18.
Madras Advertising Co., Private Ltd., The.—200, Mount Road, Madras 2.
Madras Booklet Match Co.—Bhajanai Koil Street, Madras 16.
Nalin Publicity Bureau.—11/12, Second Line Beach, Madras 1.

NATIONAL ADVERTISING SERVICE PRIVATE LTD.—150B, Mount Road, Madras 2; Phone: 8-7504, Regd. and Head Office: Khorshed Bldg., Sir P. M. Road, Bombay 1 (BR).
National Publicity Co.—45, Sir Theagaraya Road, Madras 17.

PARAMOUNT PUBLICITIES.—96-A, Mount Road, Teynampet, Madras 18; Specialists in Newspaper Publicity all over India and abroad; Fully equipped to provide complete advertising Services; Recognised by Newspapers all over India; Consult, for anything and everything in advertising; Phone: 443509, 44369, Madras 18.

Ravi Publicity Service.—2, Gangadara Mudaly St., Madras 34.
Sastry's Advertising.—Indian Chamber Buildings, Esplanade, Madras 1.

SWASTIK ADVERTISING.—2, Thambu Chetty Street, Madras 1. Proprietor: V. Pandu Ranga Rao, Phone: 29569.
Vijaya Publicity, 14, Bazar Road, Madras 14.
Walter Thompson & Co. P. Ltd., J.—19, C-in-C Road, Madras 8.

AGRICULTURAL IMPLEMENTS

Agricultural Equipment Co., Ltd.—235, Poonamallee High Road, Madras 3.
Amalgamations P. Ltd.—202, Mount Road, Madras 4.
Easun Engineering Co. Ltd.—5/7, Second Line Beach, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—1st Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Madras Small Industries Corp'n. Ltd., 35/2, Woods Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.

Modern Machine Works.—5, Errabalu Chetty Street, Madras 1.
National Engineering Co. (Madras) Ltd.—379, Netaji Subhas Chandra Bose Road, Madras 1.
Rallis (India) Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
S. Jagannatham & Co.—84, Nynlappa Naick Street, Madras 3.
South Indian Export Co., Ltd.—5, McLean Street, Madras 1.
Tecalemit (India) Ltd.—150-A/3, Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank Building, First Line Beach, Madras 1.

AIR-CONDITIONING AND REFRIGERATION

Air-Conditioning Corp'n. Ltd.—32, Greames Road, Madras 6.
Andhra Electric Co.—115-A, China Bazar, Madras 1.
Bharat Air-Conditioning & Refrigeration Services.—40, Whites Road, Madras 14.
Blue Star Ltd.—23/24, Second Line Beach, Madras.
Best & Co., Ltd.—First Line Beach, Madras 1.
Everkool Enterprises.—34, Sarangapani St., Madras 17.
General Radio & Appliances Ltd.—1/18, Mount Road, Madras 2.
Gillander's Arbuthnot & Co., Ltd.—1st Line Beach, Madras 1.
Kundlia Brothers.—296, Linghi Chetty Street, Madras 1.
Lloydair.—No. 10, Victoria Crescent, Madras 8.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Mohamed Ebrahim & Co. Ltd.—7/8, Mount Road, Madras 2.
Refrigerators & Home Appliances Ltd.—36, Mount Road, Madras 2.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
W. A. Beardsell & Co. (Private) Ltd.—8, Second Line Beach, Post Box No. 8, Madras-1.

ANALYSTS

ITALAB PRIVATE LTD.—19, Govindappa Naicken Street, Madras. Assayers, Samplers, Surveyors; Head Office: 15, Cawasji Patel Street, Bombay 1. Phone: 25-3882/3667. Grams: "ITALABO". Branch Laboratories: Calcutta, 10, Lal Bazar; Visakhapatnam, 20/119, Beech Road; Bellary, XIX/37, Ganesh Temple Street, Carol Bazar.

ARC WELDING EQUIPMENT AND ELECTRODES

Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.

ASBESTOS PRODUCTS

ASBESTOS, MAGNESIA & FRICTION MATERIALS LTD., (Incorporated with limited liability in England); A member of Turner & Newall group; Madras Sales Office: 202, Mount Road, Madras; Phone: 85610, Grams: "ASMAFRIC"; Bombay office: Bombay-Agra Road, Chhatkopar, Bombay 77 (AS); Phone: 581491 (9 Lines); Grams: "ASMAFRIC"; Sales Offices at Calcutta & New Delhi.

HINDUSTAN FERODO LTD.—A member of the Turner & Newall Group, Madras Sales Office: 202 Mount Road, Madras 2. Phone: 85610; Grams: "FERODOSTAN"; Regd. Office & Factory: Bombay-Agra Road, Chhatkopar, Bombay 77 (AS); Phone: 581491 (9 Lines); Grams: "FERODOSTAN"; Sales Offices: Calcutta & New Delhi; Manufacturers of "FIREFLY" asbestos textiles Compressed, Asbestos Fibre jointings, Asbestos Millboard, "Limpet" Asbestos Sheets and Ferbestos.

Rajalakehmi Agencies.—404/2, Thambu Chetty St., Madras 1.
Scott & Pickstock Ltd.—6, Armenian Street, Madras 1.
Sri Gajalakshmi Agencies.—144, Pycrofts Road, Madras 5.
Sri Jayalakshmi Hall.—2/142, Mount Road, Madras 8.

AUTOMOBILES (TRUCKS, MOTORCARS & MOTORCYCLES)

George Oakes Ltd.—36-D, Mount Road, Madras.
Madras Motors Private Ltd., The.—36-C, Mount Road, Madras 2.

AUTOMOBILE & ANCILLARY INDUSTRIES

Best & Co. Pvt. Ltd.—13/15, North Beach Road, P.B. No. 63, Madras 1.
Enfield India Ltd.—"Royal Enfield" Bldgs., P.B. No. 5284, Tiruvottiyur, Madras 19.
Engine Valves Ltd.—No. 5, Patullos Road, Mount Road, Madras 2.
Hydraulics Pvt. Ltd.—P.B. No. 331, 29, Mount Road, Madras 2.
India Pistons Pvt. Ltd.—"Huzur Gardens", Sembiam, Madras 11.
India Radiators Ltd.—99, Armenian Street, Madras 1.
Simpson & Co., Ltd.—202/203, Mount Road, Madras 2.

AUTOMOBILES, AUTOMOBILE PARTS AND ACCESSORIES

Accurate Products Corpn. P. Ltd.—Velacheri Road, Vellacherry, Madras 2.
 Addison & Co. P. Ltd.—158, Mount Road, Madras 2.
 Anand Automobiles—24, General Patters Road, Mount Road, Madras.
 Annamalai Trading Co.—82, Harris Road, Mount Road, Madras.
ASBESTOS, MAGNESIA & FRICTION MATERIALS LTD.—
 (Incorporated with limited liability in England); A member of Turner & Newall group; Madras Sales Office: 202, Mount Road, Madras 2; Phone: 85610, Grams: "ASMAFRIC"; Bombay office: Bombay Agra Road, Ghatkopar, Bombay 27AS; Phone: 581491 (9 Lines), Grams: "ASMAFRIC". Sales Office at Calcutta & New Delhi.
 Ashok Automobiles.—44, General Patters Road, Madras 2.
 Associated Trades.—Tool House, Pattulos Road, Madras 2.
 Auto & General Supplies Co.—Bharath Insurance Bldg., 1/18, Mount Road, Madras.
 Autoliners (Madras) P. Ltd.—202, Mount Road, Madras 2.
 Automobiles Components.—7, State Bank Street, Madras 2.
 Automotive Agencies (P) Ltd.—12, Smith Road, Mount Road, Madras 2.
 Automotive & Allied Industries (P) Ltd.—52, General Patters Road, Madras 2.
 Automotive Traders.—43, Bobegun Street, General Patters Road, Madras 2.
 Auto Parts Trading Co.—22, General Patters Road, Madras 2.
 Auto Sales Co.—2, State Bank Street, Madras 2.
 Auto Tool.—23, General Patters Road, Madras 2.
 Bawa Motors.—10, State Bank Lane, Madras 2.
 Central Auto Agencies.—192, Walltax Road, Madras 1.
 Central Automobiles—7-A, Imperial Bank Street, Mount Road, Madras.
 Central Auto Parts Co.—75, Apparswamy Koil Street, Mylapore, Madras 4.
 City Auto Stores.—No. 41, G. P. Road, Madras 2.
 Continental Parts Co.—3, State Bank Street, Madras 2.
 Eastern Automobile & Engineering Co., (P) Ltd.—24, General Patters Road, Madras 2.

ENGINE VALVES LTD. Madras 16.

Manufacturers of TRANCO Valves for all internal Combustion Engines in Technical Collaboration with PARNBOROUGH ENGINEERING CO. LTD., U.K. & ATE Valves for Tata Mercedes Benz and Shaktiman Vehicles under Licence from ALFRED TEVES GmbH., West Germany.

Phone : 801197 (3 Lines).

Grams : " VALVES ".

General Automobiles.—18, General Patters Road, Madras 2.
 George Vint Bhalla (P) Ltd.—7, Woods Road, Mount Road, Madras 2.
 G. M. Automobiles (Jeep Centre).—41, General Patters Road, Madras 2.
 Globe Traders.—7-B, State Bank Street, Madras 2.
 Hercules Automobiles.—Express Estates, Woods Road, Madras 2.
HINDUSTAN FERODO LTD.—A member of the Turner & Newall Group, Madras Sales Office: 202, Mount Road, Madras 2; Phone: 85610; Grams: "FERODOSTAN"; Regd. Office & Factory: Bombay-Agra Road, Ghatkopar, Bombay 27(AS); Phone: 581491 (9 Lines); Grams: "FERODOSTAN"; Sales Offices: Calcutta & New Delhi; Manufacturers of "FERODO" Brake & clutch linings.
 Hindustan Motors Ltd.—83, Peters Road, Madras 14.
 Hindustan Pistons (P) Ltd.—52, Dams Road, Mount Road, Madras 2.
 India Motor Parts & Accessories P. Ltd.—1/115, Mount Road, Madras 2.
 India Pistons P. Ltd.—Sembiam, Madras 11.
 India Radiators Ltd.—99, Armenian Street, Madras 1.
 Indian Engineering & Trading Co.—26, Wallers Road, Madras 2.
 Kapur Auto Agencies.—41, General Patters Road, Madras 2.
 Khaliq Automobiles.—12, State Bank Street, Madras 2.
 Khanna Auto Corpn.—18, General Patters Road, Madras 2.
 Khivraj Motors P. Ltd.—150/A, Mount Road, Madras 2.
 Kishore Automobiles.—22, General Patters Road, Madras 2.
 Lakshmi Motors.—35, General Patters Road, Madras 2.
 Madras Auto Diesel House.—8-A, Pattulos Road, Madras 2.
 Madras Auto Service P. Ltd.—37, Mount Road, Madras 6.
 Madras Mercantile Agencies (P) Ltd.—1/18, Mount Road, Madras 2.
 Madras Motors P. Ltd.—36C, Mount Road, Madras 2.
 Marikar (Motors) Ltd.—18, General Patters Road, Madras 2.
 Modern Automobiles—4/17-A, Mount Road, Madras 2.
 Modern Motors.—16, General Patters Road, Madras 2.
 Motor & Allied Agencies—1/17-H, Mount Road, Madras 2.
 Motor Industries Co., Ltd.—1/155, Mount Road, Madras 2.

Motor & General Trading Co.—P. B. No. 361, Mount Road, Madras.
 National Products Corporation P. Ltd.—22, General Patters Road, Madras 2.
 National Automobiles.—15, State Bank Street, Mount Road, Madras.
 New Motor House.—16, General Patters Road, Madras 2.
 Nishat Trading Co.—52, General Patters Road, Madras 2.
 Odeon Automobiles—82A, General Patters Road, Madras 2.
 Oil Seal Traders.—24, Wallers Road, Mount Road, Madras 2.
 Overseas Manufacturers Sales Co.—22, General Patters Road, Madras 2.
 Pai & Co., G.N.—28-A, General Patters Road, Madras 2.
 Pioneer (Madras) Pvt. Ltd.—23, Mount Road, Madras 2.
 Premier Auto-Electric P. Ltd.—4, Pattulos Road, Madras 2.
 Presidency Motors.—33, General Patters Road, Madras 2.
 Radhakrishna Motor Stores—17, Mount Road, Madras 2.
 Ram Motors.—4/30, Mount Road, Madras 2.
 Ravindra Trading Co.—43-A, General Patters Road, Madras 2.
 Reliance Motor Co. P. Ltd.—160, Mount Road, Madras 2.
 Reliance Trading Co.—3, General Patters Road, Madras 2.
 Royal Cycle & Motor Co.—13/14, Broadway, Madras 1.
 South India Automotive Corporation Private Ltd.—24, Whites Road, Madras 14.
 South India Motor Co.—36B, Mount Road, Madras 2.
 Southern India Trading Corporation.—4, Westcott Road, Madras 14.
 Southern Mercantile Corporation.—19, Woods Road, Madras 2.
 Spence Ltd.—24, General Patters Road, Madras 2.
 Standard Auto Parts Co.—2/30, Mount Road, Madras 2.
 T. V. Sundaram Iyengar & Sons P. Ltd.—37, Mount Road, Madras 6.
 Union Com. (Accessories) P. Ltd.—29, Mount Road, Madras 2.
 United Auto Supplies Co.—62, G. Patters Road, Madras 2.
 United Motors.—49-A, General Patters Road, Madras 2.
 Upper India Trading Co. (P) Ltd.—1/18, Mount Road, Madras 2.
 Visram Motors—38-C, Mount Road, Madras 6.
 V. S. T. Motors P. Ltd.—34, Mount Road, Madras 2.
 V.T.C. Automobiles.—Post Box 2720, Madras 2.

AUTOMOBILE MANUFACTURERS

Ashok Leyland Ltd.—Ennore, Madras 57.
 Standard Motor Products of India Ltd.—29, Mount Road, Madras 2.

BATTERIES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
 Associated Battery Makers (Eastern) Ltd.—150-B, Mount Road, Madras 2.
 Associated Electrical Industries (India) Ltd.—35/5, Mount Road, Madras 2.
 Auto-Mark P. Ltd.—1/B, Commander-in-Chief Road, Madras 8.
 Chloride & Exide Batteries (Eastern) P. Ltd.—Exide House, 150-B, Mount Road, Madras.
 General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
 Himco Batteries Madras Private Ltd.—144, Mount Road, Madras 6.
 Lucas T.V.S. Service P. Ltd.—37, Mount Road, Madras 6.
 Oldham & Sons (India) P. Ltd.—P. Box 2635, Madras 32.
 South India Export Co., Ltd.—5, McLean Street, Madras 1.

BEARINGS (BALL AND ROLLER)

Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 Heatly & Gresham Ltd.—Bombay Mutual Bldgs., Madras 1.
 H. M. Brothers.—80/81, Sembudoss Street, Madras 1.
 Jairamdas & Sons, 3, Errabalu Chetty St., Madras 1.
 Kapoor Enterprises.—76, Thambu Chetty St., Madras 1.
 Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
 Madras Ball Bearing House.—17-A, General Patter's Road, Madras 2.
 Malhotra Mill Store Co.—33, Mooker Nallamuttu Street, Madras 1.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Prakash Trading Co.—54, Thambu Chetty St., Madras 1.
 Sachdev Trading Co.—P. Box 54, Madras 1.
 Shriram Bearings Ltd.—154/155, Broadway, Madras 1.
 S.K.F. Ball Bearing Co. P. Ltd.—7, Armenian Street, Madras 1.
 United Bearing Co.—45, Thambu Chetty Street, Madras 1.

BOLTS, NUTS AND SCREWS

Amar Industrial Corporation.—85, Rasappa Chetty St., Madras 3.
 Noble Hardware Mart.—22, Sembudoss St., Madras 1.
 Noor & Co., 249, Rasaappa Chetty St., Madras 3.

BOOKSELLERS AND PUBLISHERS

Allied Publishers Private Ltd.—Mohan Mansions, 38/C, Mount Road, Madras 6.
 Amudha Nilayam P. Ltd.—91, Mount Road, Madras 18.
 Ananda Vikatan—Mount Road, Madras 2.
 Noor & Co., 249, Rasappa Chetty St., Madras 3.
 Aruna Publications.—23, G. N. Chetty Road, Thyagarayanagar, Madras 17.
 Asia Publishing House—99, Mount Road, Madras 2.
 Avvai Noolagam—4/41, Broadway, Madras 1.

Balkumar & Co.—Appah Buildings, Esplanade, Madras 1.
Basuram & Co.—2/27, Meeran Sahib Street, Mount Road, Madras 2.
Bharathi Pathippagam—14, Usman Road, T'Nagar, Madras 17.
Bible Society of India & Ceylon—P.B. No. 502, Park Town, Madras 3.
Blackie & Sons—3, Rajamannar Street, Madras 17.
Book Centre—3, Kondi Chetty Street, Madras 1.
Books India (Private) Ltd.—135, Coral Merchant Street, Madras 1.
C. Subbiah Chetty & Co.—62, Big Street, Triplicane, Madras 5.
Central Book Depot—B1, Pycrofts Road, Triplicane, Madras 5.
Chandamama Publications—2 & 3, Arcot Road, Madras 26.
Christian Literature Society—Post Box No. 501, Madras 3.
Cultural Books P. Ltd.—31, Meerasahib Street, Madras 2.
Grama Jothi Noolagam—1, Robertson Lane, Madras 28.
Higginbothams (Private) Ltd. (Estd. 1844)—Post Box No. 311, Madras.
Himalaya Publications—14, Warren Road, Madras 4.
Inba Nilayam—34, Kutchery Road, Mylapore, Madras 4.
India Book House—Purushotham Bldgs., 193, Mount Road, Madras 2.
Indian Publishing House Ltd.—14, Sunkurama Chetty Street, Madras 1.
Jalco Publishing House—7 State Bank Lane, Mount Road, Madras 2.
Jyothi Nilayam—Muslim High School Compound, Triplicane, Madras 5.
Kalamagal Publications—55/56, M. K. Amman Koil Street, Post Box No. 604, Mylapore, Madras 4.
Kalki—20, Dr. Guruswamy Mudaliar Road, Madras 10.
Kaviya Kazhagam—4, Rajagopala Naicken Lane, Chintadripet, Madras 2.
Little Flower Co.—8, Ranganathan Road, Thyagarayanagar, Madras 17.
Macmillan & Co. Ltd.—6, Patullo Road, Mount Road, Madras 2.
The Malar Nilayam—133, Broadway, Madras 1.
Mangala Noolagam—2, Josier Street, Nungambakkam, Madras 6.
Mercury Publishing House—38, Sambanda Mudaliar Street, Madras 28.
New Century Book House P. Ltd.—6, Nallathambi Chetty Street, Madras 2.
Natesan & Co., G. A.—3, Sunkurama Chetty Street, Madras 1.
National Publishing Co.—6, Kondi Chetty Street, Madras 1.
Orient Longmans (P) Ltd.—36-A, Mount Road, Madras 2.
Ottrunial Office—8, Vyasarao Street, T'Nagar, Madras 17.
Our India Directories & Publications (P) Ltd.—11, 2nd Main Road, Madras 28.
Oxford University Press—Mount Road, Madras 2.
Paul & Co., B.G.—4, Francis Joseph Street, Madras 1.
Pearl Publications—Purushotham Bldgs., 193, Mount Road, Madras 2.
Presidency Book Supplies—8-C, Pycrofts Road, Madras 5.
Protima Books—49, Mukathal Street, Madras 7.
Rajeswari Book House—28, V. S. V. Koil Street, Mylapore, Madras 4.
Rayalu & Co.—32, Narayanamudali Street, Madras 1.
Sakthi Karyalayam—1/142, Mount Road, Madras 6.
Sanskriti Nilayam—88, Kutcheri Road, Mylapore, Madras 4.
South India Saiva Siddhantha Works Publishing Society—1-140, Broadway, Madras 1.
Southern Languages Book Trust—441, Poonamallee High Road, Madras 10.
Star Publications—Big Street, P.B. No. 423, Triplicane, Madras 5.
Swadesamitran—7 & 8, Mount Road, Madras 2.
T. V. Chellappa Sastry & Sons—No. 2, Philips Street, Madras 1.
Vanathi Pathippagam—82/1, Pondy Bazaar, T'Nagar, Madras 17.
Varadachary & Co., P.—8, Linghi Chetty Street, Madras 1.
Vidya Sagar Corp'n. (P) Ltd.—35, Katchaleswaran Agraharam, Madras 5.

BUILDING ENGINEERS AND CONTRACTORS

S. SUBRAHMANYAN & CO.—Civil Engineers & Contractors, 5, C. V. Raman Road, Madras 18; Partners (1) S. Subrahmanyam, B.A., B.E., M.I.E., (2) S. Ramamurthy, B.E., (3) S. Srinivasan, B.E., M.Sc., (PH).

CEMENT & CONCRETE

Andhra Cement Co. Ltd.—38, Mount Road, Madras 1.
Asbestos Cement Ltd.—202, Mount Road, Madras 2.
Cementation Construction Co. P. Ltd.—16/3-A, Sterling Road, Madras.
Coromandel Prodorite P. Ltd.—52/53, Jehangir St., Madras 1.
Hyderabad Asbestos Cement Products Ltd.—4, Stringers St., Madras 1.
India Cements Ltd.—175/1, Mount Road, Madras 2.

CHEMICAL DEALERS

Al. Sp. Pl. Subramanyam Chettiar—Govindappa Naik Street, Madras 1.
Beacon Chemicals—149, Nyniappa Naick Street, Madras 3.
Capco Private Ltd.—16, Armenian Street, Madras 1.
Carl & Co.—44, Purasawalkam High Road, Madras 7.
Chandra Veerabhadrapa & Bros.—Govindappa Naik Street, Madras 1.

Chowgule & Co. (Hind) P. Ltd.—7/90, Wallajah Road, Madras 2.
C. J. Seth—Bunder Street, Madras 1.
Dadajee Dhackjee & Co., Ltd.—Govindappa Naik Street, Madras 1.
Indira Chemical Agency—208, Govindappa Naik Street, Madras 1.
Indo-German Agencies Ltd.—67, Dr. Alagappa Chettiar Road, Madras 7.
International Trading Corp'n—Mint Street, Madras 3.
K. MOHAN & CO.—163, Nyniappa Naick Street, Madras-3.
Khatau Vallabhdas & Co.—Govindappa Naik Street, Madras 1.
Lakshmi Colour Co.—Govindappa Naik Street, Madras 1.
Lashmidas Dwarakadas & Co.—Govindappa Naik Street, Madras 1.
Modern Chemical Co.—3/3, Veeraraghavan Road, Madras 21.
M. Mohanlal & Co.—Mint Street, Madras 3.
Nanavati & Co., Ltd.—Govindappa Naik Street, Madras 1.
Oriental Mercantile Agency—99, Armenian Street, Madras 1.
Paul's Chemical Corporation—75, General Patters Road, Madras 2.
P. K. Japee & Co.—99, Nyniappa Naick Street, Madras 3.
Scamars Chemical Corporation—2/8, Lloyds Road, Madras 6.
Seth Sheonarain & Sons—3/202, Govindappa Naick Street, Madras 1.
South India Dyes Co.—Govindappa Naik Street, Madras 1.
Vattson Corporation—56, Gengu Reddy Road, Madras 8.
Vijaya Chemical & Toilet Works—"Vijaya Mansions", 15, Clements Road, Madras 7.

CHEMICAL & PHARMACEUTICAL PRODUCTS MANUFACTURERS & DEALERS

Abbot Laboratories (I) Ltd.—3, Errabalu Chetty Street, Madras 1.
Alfred Berg & Co. (I) Ltd.—246-47, Poonamallee High Road, Madras 29.
Alvitone Laboratories—8, Trunk Road, Madras 16.
Amrutnjan Ltd.—14/15, Luz Church Road, Mylapore, Madras 4.
Asiatic Chemical Co.—Madras; 18/B, Sukeas Lane, P.O. Box 2101, Calcutta; Offices: Masjid Siding, Opp. Prince's Dock, Bombay 9; 26/46, Birhand Road, P.O. Box 189, Kanpur.
Associated Pharmaceutical Industries Pvt. Ltd.—10, Boag Road, Madras 17.
Ayurvedashram Ltd.—100, G. N. Chetty Road, Madras 17.
Chemical Engg. Corp'n. Ltd.—7-A, Sriganna Naick Street, Madras 1.
Dollar Co.—337, Thambu Chetty Street, Madras 1.
East India Pharmaceutical Works Ltd.—18, Second Line Beach, Madras 1.
Ehrlich Laboratories—Balaji Nagar, Madras 14.
Fairdeal Corporation P. Ltd.—2, Errabalu Chetty Street, Madras 1.
Glaxo Laboratories (I) Ltd.—Velacheri Road, Madras 32.
H. Chandanmal & Co.—97, Nyniappa Naick St., Madras 3.
Hansa Chemical Industry—195, Govindappa Naick St., Madras 1.
Indian Health Institute & Laboratory Ltd.—4/149, Broadway, Madras 1.
Indo Agencies Pharma P. Ltd.—67, Dr. Alagappa Chettiar Road, Madras 7.
Indo Ceylon Dental and Surgical Co. Ltd.—288, Esplanade, Madras 1.
Jammi Venkatramanayya & Sons—48/1, Royapettah High Road, Madras 4.
K. MOHAN & CO., 163, Nyniappa Naick Street, Madras-3; Chemicals for all types of industry; Manufacturers of AR & CP Acids, Phosphates, Magnesium Sulphate, Zinc Sulphate, Silica filter aids and activated alumina.
Kesari Kuteeram Ltd.—15, Westcott Road, Madras 14.
Little's Oriental Balm & Pharmaceuticals Ltd.—Express Estates, Madras 2.
Madanraj Khicha 2, Muniappan Street, Madras 1.
Madras Alkali & Chemical Works, Ltd.—31, Alamelumangalpuram, Madras 4.
Martin & Harris Ltd.—312, Thambu Chetty Street, Madras 1.
May & Baker (I) Ltd.—12A, Marshall's Road, Madras 8.
Mount Mettur Pharmaceuticals P. Ltd.—7, Thangal Pettai Road, Madras 41.
New Premier Chemical Industries P. Ltd.—289, Thambu Chetty Street, Madras 1.
Noble Packo-Chems, P. Box 2315, Madras 3.
Pfizer Ltd.—16/1, Whites Road, Madras 14.
Pharmaceutical & Research Laboratories—19, Dr. Guruswami Mudaliar Road, Madras 10.
Santha Chemicals Ltd.—438, Poonamallee High Road, Madras 10.
Scientific Chemicals, 3/5, Iyappa Pillai St., Madras 3.
Smith Stanistreet & Co. Ltd.—101/102, Armenian Street, Madras 1.
South Indian Products Ltd.—95, Mundakanniamman Koil St., Madras 4.
Sreevatsa Chemicals & Drugs Ltd.—13, Lakshmi Talkies Road, Madras 30.
S. S. Mehta & Co., 194, Govindappa Naick St., Madras 1.
Standard Drugs & Chemicals Co.—131, Nyniappa Naick Street, Madras 3.
Standard Pharmaceutical Works Ltd.—79, Sembudoss Street, Madras.
Tablets P. Ltd.—114, Mint Street, Madras 1.
Teddington Chemical Factory Ltd.—113, Arcot Road, Madras 26.
Thirumal Industrial & Chemical Works—217, Govindappa Naick St., Madras 1.

United Pharma (I) Ltd.—95, Nyrwappa Naick St., Madras 3.
Vitalone Research Institute P. Ltd.—220, T. H. Road, Tondiarpet,
Madras 21.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

CINEMA MACHINERY & EQUIPMENTS

CINERAMA PRIVATE LTD.—(Successors to Westrex Co.,
India), Agurchand Mansion, 35, Mount Road, Madras 2.
Devi Cine Projector Mfg. Co.—B-6, Industrial Estate, Madras 32.

CROCKERY MERCHANTS

Abdul Rahim & Bros.—13, Evening Bazar Road, Madras 3.
A. K. Shah & Co.—28/29, Evening Bazar, Madras 3.
E. M. Abdulla & Co.—315/318, Netaji S. C. Bose Road, Madras 1.
Indian Glassware Depot.—29, Stringers Street, Madras 1.
Jamal's Corner Shop.—Evening Bazar Road, Madras 3.
J. M. Jamal & Bros.—289, Netaji S. C. Bose Road, Madras 1.
Kassam Chocku & Co.—288, China Bazar Road, Madras 3.
K. S. Shivji & Co.—178/179, Broadway, Madras 1.
Madras Glassware House.—Evening Bazar, Madras 3.
Mohmed Hussain & Bros.—Rattan Bazar, Madras 3.
Noor Mohmed & Co.—288, China Bazar Road, Madras 3.
P. Alli Mohmed Zinna & Co.—67/68, Rattan Bazar, Madras 3.
Peer Mohmed & Co.—287, Netaji S. C. Bose Road, Madras 1.
Poppat Jamal & Sons.—182, Broadway, Madras 1.
S. Ibrahim & Co.—10, Jones Street, Madras.

CUTLERY MERCHANTS

Abdulla & Co., E. M.—315/318, N.S.C. Bose Road, Madras 1.
Abdul Rahim & Bros.—13, Evening Bazar Road, Madras 3.
A. K. Shah & Co.—28/29, Evening Bazar, Madras 3.
Aluminium Glassware Emporium.—289, China Bazar, Madras 3.
Indian Glassware Depot.—29, Stringers Street, Madras 1.
Jamal's Corner Shop.—Evening Bazar Road, Madras 3.
J. M. Jamal & Bros.—289, Netaji Bose Road, Madras 1.
Kassam Chacku & Co.—288, China Bazar, Madras 3.
K. Rajaram & Co.—8, Bunder Street, Madras.
Madras Glassware House.—Evening Bazar, Madras 3.
Mohmed Husain & Bros.—Rattan Bazar, Madras 3.
Noor Mohmed & Co.—288, China Bazar, Madras 3.
P. Alli Mohmed Zinna & Co.—67/68, Rattan Bazar, Madras 3.
Peer Mohmed & Co.—3/287, Netaji Bose Road, Madras 3.
Poppat Jamal & Sons.—Broadway, Madras 1.
S. Ibrahim & Co.—10, Jones Street, Madras.

ELECTRICAL ENGINEERS, MFRS. & DEALERS IN ELEC. GOODS

BAJAJ ELECTRICALS LTD.—3/33, Mount Road, P.O. Box
2722, Madras-2; Phone: 83969; Head Office at Bombay;
Marketing Electrical Consumer goods, Electrical Engi-
neers, Manufacturers and Contractors.

ELECTRICAL GOODS AND APPLIANCES

All India Electric Co.—93, Perumal Mudali Street, Madras 1.
Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Andhra Electric Co.—115A, China Bazar, Madras 1.
Asea Electric India P. Ltd.—Mercantile Bank Bldg., 1st Line Beach,
Madras 1.
Ashok Electric Co.—8/2, Govindappa Naick Street, Madras 1.
Associated Electrical Industries (India) Ltd.—35/5, Mount Road,
Madras 2.
Associated Electricals Ltd.—12/A, Linghi Chetty Street, Madras 1.
Auto Electric & Aeronauticals.—276, Linghi Chetty St., Madras 1.
Baliga Lighting Equipment P. Ltd., C-39-40, Industrial Estate,
Madras 32.
Bharat Electricals, 17, Thambu Chetty Street, Madras 1.
Chicago Telephone & Radio Co., Ltd.—196, Mount Road, Madras 2.
Eastern Electric Co., 2nd Line Beach, Madras 1.
Electrical Engineering Equipment Co.—4, Errabalu Chetty Street,
Madras 1.
Electrical & General Supply Co.—17-C, Broadway, Madras 1.
Electro Industries.—39, North Mada Street, Madras 4.
Esplanade Electric Co.—5-A, Sembudoss Street, Madras 1.
Fomra Brothers.—392, Mint Street, Madras 1.
Ganesh Flour Mills Co. Ltd.—2, Thambu Chetty Street, Madras 1.
General Electric Co. of India Private Ltd.—Magnet House, Mount
Road, Madras 2.
Hackbridge Hewitt & Kasun Private Ltd.—5/7, Second Line Beach,
Madras 1.
India Electric Works Ltd.—101/102, Armenian Street, Madras 1.
International General Electric Co., Ltd.—36B, Mount Road, Madras 2.
Jemco P. Ltd.—Super B-3, Industrial Estate, Guindy, Madras 32.
K. R. Kothandaraman & Co. P. Ltd.—116/117, Moore St., Madras 1.

Kumar Brothers—61, Netaji Subhas Chandra Bose Road, Madras 1.
Leo Enterprises.—87/91, Devaraja Mudali Street, Madras 1.
Madras Electricals Ltd.—55/57, Rattan Bazar, Madras 3.
Madras Electric Trades and Agencies.—6/12, Luz Church Road,
Madras 4.

Mahaveer Electric Corporation.—19, Govindappa Naick Street,
Madras 1.
Modern Electric Co.—301, Linghi Chetty Street, Madras 1.
Murugan Electricals.—8, Brunton Cotton Press Road, Madras 18.
Neo Hindustan Electricals.—102, Mowbrays Road, Madras 18.
Patel Electric Company Private Ltd.—18, Govindappa Naick Street,
Madras 1.
Premier Auto Electric P. Ltd.—4, Pattulos Road, Madras 2.
Revathi Agencies.—4, Stringers Street, Madras 1.
S. B. Electric Mart Ltd.—175, Netaji Subhas Road, Madras 1.
Scott & Pickstock P. Ltd.—6, Armenian Street, Madras 1.
Seeyensee & Co.—55, Anderson Street, Madras 1.
Sethuram Thiagarajan & Co.—175/1, Mount Road, Madras 2.
Shree Nursing Sahay Mudungopal Electric Co. P. Ltd.—108, Mint
Street, Madras 1.
Standard Electric Co.—27, General Patters Road, Madras 2.
Swastik Electric Co.—2/105, Armenian Street, Madras 1.
Transformer & Switchgear Ltd.—116/117, Moore St., Madras 1.
Tube Lights P. Ltd.—3, Stringers St., Madras.
Westrex Company India.—35, Mount Road, Madras 2.

FERTILISERS

Imperial Chemical Industries (India) Private Ltd.—Bombay
Mutual Bldg., N. S. Bose Road, Madras 1.
Madras Oils & Fertilisers P. Ltd.—Villivakam, Madras.
Mysore Fertiliser Co.—31/A, North Beach Road, Madras 1.
Parry & Co., Ltd.—“Dare House”, First Line Beach, Madras 1.
Premier Fertilisers Ltd.—15, Mount Road, Madras 2.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Scientific Fertiliser Co., Ltd.—13/14, Second Line Beach, Madras 1.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.

FOUNTAIN PENS, NIBS & SPARES MANUFACTURERS AND DEALERS

Gem & Co.—225-226, Netaji Subhas Chandra Bose Road, Madras 1.
Geneve Pen Industries.—32, Reddy Raman Street, Madras 1.
Globe Industries.—7, Gopal Das Road, Madras 2.
Gujarat Industries P. Ltd.—20, Kasi Chetty Street, Madras 1.
LOYAL PEN COMPANY.—23, Errabalu Chetty Street,
Madras 1. Dealers in Pen and Spares—Rates reasonable—
Enquiries solicited.
Pen Spares Mfg. Co.—A-12, Industrial Estate, Madras 32.
Pilot Pen Co. (India) Private Ltd.—Catholic Centre, Armenian
Street, Madras 1.
Regal Products P. Ltd.—186, Royapettah High Road, Madras 14.
Shelat Brothers.—8, Lakmudas Street, Madras 3.

HANDLOOM MERCHANTS & EXPORTERS

Adhithan Palayakat Co.—25, Mallan Ponnappa Mudali Street,
Triplicane, Madras 5.
Aiyasamu Mudaliar Son.—11, East Mada St., Mylapore, Madras 4.
Amin & Co.—233, Angappa Naick Street, G. T., Madras 1.
A. V. Malliah Chettiar & Sons.—5, Ramaswamy Street, Madras 1.
A. R. Panchatchara Mudaliar & Bro.—13, Karpavinayagar Street,
Alandur Street, St. Thomas Mount, Madras 16.
Asoka Palayakat Co.—253, Thambu Chetty Street, Madras 1.
Bharat Handloom Textiles.—92, Gafoor Street, Triplicane, Madras 5.
B. Appavoo & Bros.—59, Sadayappa Mudaliar St., Saidapet, Madras
15.
Bismillah Palayakat Co.—72, Angappa Naick Street, Madras 1.
Chanrai Uttamchand.—20, Wallajah Road, Mount Road, Madras 2.
CHELLARAMS MADRAS.—Manufacturers, Dealers and Ex-
porters, 86, Wallajah Road, Mount Road, Madras-2; Manu-
facturers of Handwoven Woolen Elore Carpets and Drug-
gets; Phone: 86929, Grams: “SILVER”.
Chettysons.—28, Mint Subraylulu Naidu Street, Washermanpet,
Madras-21.
India Famous Pulicat Co.—29, Armenian Street, Madras 1.
Indolanka Traders.—38, Linghi Chetty Street, Madras 1.
International Import Corp'n. (Private) Ltd.—3, Asok Road, Alwarpet,
Madras.
K. S. P. Balakrishnan & Co.—38, Armenian Street, Madras.
K. V. Subbaraya Chetty Sons.—96, Linghi Chetty Street, Madras 1.
Kalthari Lunghi Stores.—287, Thambu Chetty Street, Madras 1.
Kasimari Stores.—2/28, Jones Street, Madras.
Kishinchand Chellaram.—11, Narasingapuram St., Mount Road,
Madras 2.
M. A. B. Abumuhamed Sahib & Bros.—70, Armenian Street,
Madras 1.
M. H. Abdul Gafoor & Co.—No. 204, Angappa Naick Street, Madras 1.
M. M. Mohamed & Co.—32, Angappa Naick Street, Madras 1.
M. M. Naina & Co.—251, Linghi Chetty Street, Madras 1.

Madras Textile P. Ltd.—19/20, Arumuga Mudali St., Madras 21.
 Madariya Lungi Co.—34, Surappa Mudaliar Street, Triplicane, Madras.
 Malabar Handloom Textiles.—24, Godown Street, Madras 1.
 Mani & Co.—243, Linghi Chetty Street, G.T., Madras 1.
 Modern Palayakat Co.—12, New Street, Madras.
 Mohamed Aboobacker & Co.—95, Thambu Chetty Street, Madras 1.
 Moulana Co. (Private) Ltd.—52, Angappa Naick Street, Madras 1.
 Natarajan & Co.—251, Lingi Chetty Street, Madras 1.
 Oriental Lungi Co.—3, Arumuga Achari Street, Triplicane, Madras.
 Original Pulicat Co.—1/28, Godown Street, Madras 1.
 Overseas Trading Corp.—94, Linghi Chetty Street, G.T., Madras 1.
 P. T. Siramulu Chetty & Bros.—36, Arumuga Mudali St., Washermanpet, Madras-21.
 Panchaksharam Lungi Co.—19, Jones Road, Saidapet, Madras-15.
 Parvathi Palayakat Co.—110, Coral Merchant Street, G.T. Road, Madras.
 Rayon Traders (Private) Ltd.—61, Sembudoss Street, Madras 1.
 Roval Textiles.—42, Tippu Sahib Street, Royapettah, Madras.
 Samy Iyer Palayakat Co.—66, Armenian Street, Madras 1.
 Saraswathi & Co.—148, Coral Merchant Street, Madras 1.
 Saraswathi Palayakat Co.—116, Ramaswamy Street, G.T. Madras.
 Scissors Palayakat Co.—Triplicane High Road, Madras.
 Selvam Lungi Co.—59, Old Mambalam Road, Saidapet, Madras-15.
 Tamilnad Handloom Weavers' Co-operative Society Ltd.—34/1-A, Pantheon Road, Egmore, Madras 8.
 V. A. Khaja Lungi Co.—62/63, Shaik Dawood Street, Royapettah, Madras.
 V. Govinda Mudaliar Sons.—23, Jones Street, Madras.
 V. M. Lungi Emporium.—96, Thambu Chetty Street, Madras 1.
 V. N. K. Textiles.—216, T.H. Road, Tondiarpet Post, Madras.
 Velavar Palayakat Co. Ltd.—46, Linghi Chetty Street, Madras.
 Wassiamull Assomull & Co.—7, Mohamed Abdullah Street, Chepauk, Madras.

HARDWARE DEALERS AND IRONMONGERS

Abdool Hoossain Jeevjee & Co.—21, Linghi Chetty St., Madras.
 Abdul Hussain Salebhoy & Co.—29, Periyanna Maistry St., Madras.
 Abdul Kader & Sons.—7, Angappa Naick Street, Madras 1.
 A. Alimohamed & Co.—26, Light Chetty St., Madras.
 A. K. Abdullahoy & Co.—319, Linghi Chetty St., Madras.
 A. Kunnan Chetty.—40/41, Venkatachala Mudali Street, P. T., Madras 3.
 A. M. Goolamali & Co.—20, Errabalu Chetty St., Madras 1.
 A. Mohamed & Co.—313, Linghi Chetty St., Madras.
 Aminchand Payare Lal.—27, Sembudoss Street, Madras.
 Anuradha Private Ltd.—53, Peter's Road, Madras 6.
 A. Radhakrishna Chetty.—265, Rasappa Chetty St., Madras.
 A. T. Khorakiwala & Co.—11, Vaniar St., Madras.
 C. A. Galiakotwala & Co., Pvt. Ltd.—18, Armenian St., Madras.
 C. R. Muthukumaraswami Chetty.—256, Rasappa Chetty St., Madras.
 C. Senjoo Chetty.—86, Rasappa Chetty St., Madras.
 C. Thirunavukarasu Shetty.—267, Rasappa Chetty St., Madras 3.
 Emcete & Sons, Pvt. Ltd.—Sembudoss St., Madras.
 Fakrudeen & Co.—307, Linghi Chetty Street, Madras.
 G. R. Datchanamurthy Chetty & Son.—215, Rasappa Chetty St., Madras.
 G. Suryanarayana Chetty & Co.—65, Govindappa Naicken St., Madras.
 Gulamali Abdul Hussain & Co.—28/29, Linghi Shetty St., Madras.
 H. A. Taiyebali & Co.—294, Linghi Chetty St., Madras.
 H. Abbasbhoy Ahmedaly & Co.—288, Linghi Chetty St., Madras.
 Hind Hardware Co.—20, Venkatachala Mudali Street, Madras 3.
 Hind Industrial Corp. Ltd.—79, Sembudoss St., Madras 1.
 India Co., Ltd.—108, Armenian Street, Madras.
 Iron & Metal Traders P. Ltd.—8, Sembudoss Street, Madras 1.
 Jairamdas & Sons, 33, Sambudoss Street, Madras-1.
 Khanderia P. Ltd.—1, Tucker's Lane, Madras 1.
 Khandhalwal Bros., Ltd.—82, Sembudoss St., Madras.
 K. N. Chari & Co.—144, Nynappa Naick Street, Madras.
 K. Thiruvengadam Chetty & Co.—93, Rasappa Chetty St., Madras.
 K. V. Seshiah Chetty & Co.—44, Thathamuthiyappan St., Madras.
 M. Arumuga Chetty.—269, Rasappa Chetty St., Madras.
 Madras Circle Pipe Dealers' Asscn. Ltd.—6, Armenian St., Madras 1.
 Madras Circle Regd. Stockholders' Asscn. Ltd.—6, Armenian St., Madras 1.
 Madras Circle Scrap Dealers' Asscn. Ltd.—6, Armenian St., Madras 1.
 Madura South India Corp., Ltd.—80, Sembudoss St., Madras.
 Mayuranatham & Co.—271, Rasappa Chetty St., Madras.
 M. C. S. Rajan & Co.—155, Nyniappa Naick Street, Madras.
 M. C. Sundara Rajan & Co.—290, Linghi Chetty St., Madras.
 Metro Hardware Mart.—15/16, Rasappa Chetty Street, Madras 3.
 M. M. Abbas & Bros.—7, Sembudoss St., Madras.
 Mohamedaly Sarafaly & Co.—10, Sembudoss St., Madras.
 Murlimal Santram & Co.—13, Sembudoss Street, Madras.
 Murga & Co.—253/254, Rasappa Chetty St., Madras 3.
 P. K. Vaduvammal.—258, Rasappa Chetty St., Madras.
 P. M. Ramanjulu Chetty.—172/3, Nyniappa Naick St., Madras.

P. Natesa Chetty.—102, Rasappa Chetty St., Madras.
 P. R. Desikan & Sons.—75, Govindappa Naick St., Madras.
 P. V. Rathakrishna Chetty & Bros.—46, Venkatachala Mudali Street, Madras 3.
 South India Corn. (A) Pvt. Ltd.—6, Armenian St., Madras.
 Sree Ramachandra & Co.—8/11, Rasappa Chetty Street, Madras 3.
 T. H. Shamsudin & Co.—12 & 13, Devaraja Mudali Street, Madras 3.
 T. M. Radhakrishna Chetty & Co.—261, Rasappa Chetty St., Madras.
 T. T. Yagappa Chetty & Son.—116, Nyniappa Naick St., Madras.
 V. Kanakiah Chetty & Co.—148, Nyniappa Naick St., Madras.
 V. Kuppuswami Chetty & Co.—262, Rasappa Chetty St., Madras.
 V. M. Periyaswami Chetty & Co.—89, Rasappa Chetty St., Madras.
 V. Venugopal Pillai & Co.—2/27, Broadway, Madras.
 Vazirbun Trading.—A-29, Parianna Maistry Street, Madras 1.

HOTELS & RESTAURANTS

Airlines Hotels & Caterers Private Ltd.—177-179, Mount Road, Madras 2.
 Gupta's Ajanta Hotel—32, Royapettah High Road, Madras 32.
 Hotel Ashoka—Pantheon Road, Madras 8.
 Hotel Connemara—Binnay's Road, Madras 2.
 Hotel Dasaprakash, 50, Poonamallee High Road, Madras 7.
 Hotel Everest—Poonamallee High Road, Madras 3.
 Hotel Imperial.—1A, Gandhi Irwin Road, Madras 8.
 Hotel Oceanic.—San Thome High Road, Madras 28.
 Hotel Romana—110, Mount Road, Madras 18.
 Hotel Select—9, Linghi Chetty Street, Madras 1.
 Savoy Hotel & Restaurant.—39 Mount Road, Madras 6.
 Victoria Hotel—Gandhi Irwin Road, Madras 8.
 Woodlands Hotel—1/23, Edward Elliotts Road, Madras 4.

LEATHER GOODS

Chrome Leather Co. (Private) Ltd.—9, Davidson St., Madras 1.
 Diamond Leather Goods Co.—20, Ramaswamy Street, Madras 17.
 Gordon Woodroffe Leather Mfg. Co. (Private) Ltd.—1-21, North Beach Road, Madras.
 India Leather Corp. P. Ltd.—9, Davidson Street, Madras 1.
 Jai Hind Leather Products.—60/61, Broadway, Madras 1.
 Jayam Trading Co.—26, Kattur Sadayappan St., Madras 3.
 Tullis Woodroffe & Co. (Private) Ltd.—1/21, North Beach Road, Madras 1.

MACHINERY MANUFACTURERS, IMPORTERS AND DEALERS

Addepally P. Ltd.—Engg. Works, 31, Subedar Hussain St., Madras 14.
 Armcess Engineers P. Ltd., A-Super 8/9, Industrial Estate, Madras-32.
 Bombay Co., Ltd.—169, Broadway, Madras 1.
 Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 British Machinery Supplies Co.—136 Mount Road, Madras 6.
 Diamond Engineering Co.—6, Errabalu Chetty Street, Madras 1.
 Eastern Machinery & Trading Co.—193, Mount Road, Madras 2.
 Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 Essor Engineering Works.—53, Sydenhams Road, Periamet, Madras 3.
 Everest Metal Industries P. Ltd.—B-4 Industrial Estate, Guindy Madras 32.
 General Machinery & Spares Corporation.—B-3, Industrial Estate, Guindy, Madras 32.
 Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road Madras 1.
 Grafex Machinery Co.—92/2A, Mount Road, Madras 18.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 Guindy Machine Tools P. Ltd.—Palikaralai, Medavakkam, Madras 45.
 Heatly & Gresham Ltd.—Bombay Mutual Bldg., Esplanade, Madras 1.
 Indian Oxygen Ltd.—7/A, Vaithianatha Mudali Street, Madras 21.
JAYEMS ENGINEERING CO.—317, Thambu Chetty Street, Madras 1; Engineers, Machinery Merchants and Manufacturers' Representatives; Direct Importers of Machine Tools, Wood working machinery, Sheet Metal working Machinery, Welding & Foundry Equipment; Head Office: Great Western Building, 1st Floor, 130-132, Apollo Street, Bombay 1; Branches at all important centres.
 Kilburn & Co., Ltd.—153, Mount Road, Madras 2.
 Kothandaraman, K. R., & Co. P. Ltd.—116/117, Moore St., Madras 1.
 Larsen & Toubro Ltd.—4/5, Club House Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
 Massey's Engineers—4B/4C, North Rly. Terminus Road, Royapuram, Madras 13.
 National Engineering Co. (Madras) Ltd.—379, Netaaji Subhas Chandra Bose Road, Madras 1.
 Ballis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
 Saganla Engineers, 2, Lattice Bridge Road, Adyar, Madras-20.
 Southern Forgings P. Ltd.—A 17 & 18, Industrial Estate, Madras 32.
 Sri Rama Machinery Corp. P. Ltd.—5/6, Armenian Street, Madras 1.

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at
Macherla, Guntur Dt., Andhra Pradesh.

Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Volras Limited—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank Bldg., First Lide Beach,
Madras 1.

METALS (BRASS, IRON AND STEEL)

East India Industries (Madras) Private Ltd.—498, Mint St., Madras 3.
Hindustan Metal Refinery & Rolling Mills.—124, Mint St., Madras.
Indian Metal & Metallurgical Corpn.—498, Mint Street, Madras 3.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Metallizers P. Ltd.—C-28, Industrial Estate, Madras 32.
Mysore Premier Metal Factory—127, Mint Street, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Roberts Mclean & Co., Ltd.—32, Greaves Road, Madras 6.
Vernon & Co., Ltd.—11/12, Car St., Madras 1.
William Jacks & Co., Ltd.—National Bank Building, First Line
Beach, Madras 1.

MOTOR (BUS & COACH) BODY BUILDING MATERIALS

MAHOMEDALLY NOORBHAI & CO.

105, Mannady Street, Madras 1

Phone : 21820

Branch : Express Estate, Woods Road, Madras 2.

Phone : 84540.

Direct Importers, Dealers in Motor Carriage, Bus Body
Fittings, and Accessories, Hood and Upholstery Mate-
rials, P.V.C. Leather Cloth, Aluminium Section and
Circles, Celluloid Sheets, Rubber Matings, Flag
Brand Cab Tyres; Branches at Calcutta & Lucknow.

NON-FERROUS METALWARE MFRS. & IMPORTERS

Best & Co., Ltd.—13/15, North Beach Road, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
East Asiatic Co. (India) Ltd.—16, First Line Beach, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Heatly & Gresham Ltd.—Bombay Mutual Building, Madras 1.
Imperial Chemical Industries (India) Ltd.—Bombay Mutual Bldg.,
N. S. C. Bose Road, Madras 1.
Mardia & Co.—28, Mooker Nallamuthu Street, Madras 1.

NATIONAL FASTENERS PRIVATE LTD.—B. Super 1, Industrial
Estate, Guindy, Madras 32; Phone : 801510; Grams : "FOR-
GINGS"; Manufacturers of Non-ferrous Forgings/Hot
Stampings out of Copper, Brass & Bronzes as Ancillary
Components for Automotive, Electrical and Engineering
Industries; also Manufacturing Mild Steel Nuts by the
Automatic Hot Forging Process.

Tambawala Products Agencies P. Ltd.—13, Singanna Naick St.,
Madras 1.

Vernon & Co., Ltd.—11/12 Car St., Madras 1.

William Jacks & Co., Ltd.—National Bank of India Building, First
Line Beach, Madras 1.

OFFICE EQUIPMENTS AND SUPPLIES

REMINGTON RAND OF INDIA LTD.—Business that serves
all Business Typewriters and Business Systems; 38/3, Mount
Road, Madras 6. Phone : 86484 (3 lines). Grams : "REMING-
TONS."

PAINTS, ENAMELS AND VARNISHES, ETC.

A. Bashyam & Co.—11, Venkatachala Mudali Street, Madras 3.
Addisons Paints & Chemicals Ltd.—Sembiam, Madras 11.
Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Anuradha Private Ltd.—53, Peter's Road, Madras 6.
A. S. Manickam & Co.—46, V. Mudali Street, Madras 3.
Asian Paints (I) P. Ltd.—4A, Smith Road, Madras 2.
British Paints (I) Ltd.—23, Haddows Road, Madras 6.
Cellulose Products Co.—7-A, Singanna Naick Street, Madras 1.
Chiranjilal Daga.—109, Mint St., Madras 1.
East India Paint & Chemical Works Ltd.—19/3, Armenian St.,
Madras 1.
Gillander's Arbuthnot & Co., Ltd.—3, North Beach Road, Madras 1.
Goodlass Nerolac Paint P. Ltd.—23, Periana Maistry St., Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road,
Madras 1.
Hoyle's Paints Ltd.—2/29, Mount Road, Madras 2.
Jenson & Nicholson (I) Ltd.—7, Armenian St., Madras 1.
John Fleming & Co. P. Ltd.—280, Linghi Chetty Street, Madras 1.
London Varnish & Enamel Co. Ltd.—7, Armenian Street, Madras 1.
N. Chokkalingam & Co.—62/63, Rasappachetty St., Madras 3.
Ravi Paints & Chemicals Ltd.—85-87, Armenian St., Madras 1.
S. D. Rangwalla & Co.—289, Linghi Chetty Street, Madras 1.
Sekar & Co., G.D.—134, Mount Road, Madras 6.
Shalimar Paints Ltd.—11/12, Hind Line Beach, Madras 1.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
Snow White Industrial Corporation—109, Netaji Subhas Road,
Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Western India Paint & Colour Co.—19, Venkatachala Mudali St.,
Madras 1.

PAPER MERCHANTS

Annamalai & Co.—23, Badrian Street, Madras 1.
Anuradha Private Ltd.—53, Peter's Road, Madras 6.
A. S. Annamalai Chettiar & Co.—56, Big Street, Triplicane, Madras.
Chas. Morgan & Co. Ltd.—314/15, Linghi Chetty St., Madras 1.
Chettiar & Co.—1/52, Anderson Street, Madras.
C. J. Sheth.—Bunder Street, Madras 1.
Continental Corporation.—22, Broadway, Madras.
C. Sanjeevi Chetty Co.—56, Bunder Street, Madras.
East & West Trading Co.—232, Govindappa Naick St., Madras.
Eastern Mercantiles.—41, Anderson Street, Madras.
E. Subbiah Pillai Sons.—26, Sembudoss Street, Madras.
Ganga Paper Stores (P) Ltd.—20, Baker Street, Madras.
General Papers Ltd.—16, Armenian Street, Madras.
International Paper Co.—1-E, Anderson Street, Madras.
Jai Dayal Kapur & Sons (P) Ltd.—2, Anderson Street, Madras.
J. B. Advani & Co. (P) Ltd.—98, Armenian Street, Madras 1.
Jeyam & Co.—43/44, Anderson Street, Madras.
K. A. Seshadri Aiyangar & Sons.—2-B, Malayaperumal St., Madras.
K. L. N. Paper Traders.—289, N. S. C. Bose Road, Madras 1.
K. Orr & Co.—16, Stringers Street, Madras.
K. Venkataraman & Co.—11, Anderson St., Madras 1.
Lakshmiah Papers.—7/8, Audiappa Naicken St., Madras.
Laxmiwax Corporation—55/57, North Beach Road, Madras 1.
Lala Gopikrishna Gokuldas.—119, Mint Street, Madras.
Madras Paper Board Industries.—72, Mint Street, Madras 3.
Madras Paper Converters and Industries.—84, Sydenham's Road,
Madras.
Maars Corporation.—23, Anderson Street, Madras 1.
McDowell & Co., Ltd.—6, Second Line Beach, Madras.
Mahalakshmi & Co.—39, Anderson St., Madras 1.
M. Kumber Ali & Bros.—1, Anderson Street, Madras 1.
M. Hussan Ali & Sons.—50, Bunder Street, Madras.
M. Natesa Chetty & Co.—56, Anderson Street, Madras 1.
M. Ziaullah & Sons.—1, Anderson Street, Madras 1.
N. Varadarajulu Chetty & Bro.—5, Bunder Street, Madras 1.
Parsram Jethanand & Co.—3, Thambu Chetty Street, Madras.
Palaniappa & Co.—45, Badrian Street, Madras.
Phoenix Agencies.—I-A, T. P. Koll Lane, Triplicane, Madras.
Paper Products Ltd.—Gaffar Mansion, 60, Chinnathambi Street,
Madras 1.
P. Moonirathnam Naidu & Sons.—10, Stringer Street, Madras.
P. R. Natham & Co.—2/235, N.S.C. Bose Road, Madras 1.
P. S. Nanjappa Chetty & Sons.—2/34, Mint Street, Madras.
P. Singaravelu Chetty & Son.—54, Bunder Street, Madras.
P. S. N. M. Ramalingam Chettiar & Co.—46, Anderson Street,
Madras.
Rajan & Co.—1, Goomes Street, Madras.
Raja Paper Co.—1-B, Anderson Street, Madras 1.
Ramakrishna & Co.—Anderson Street, Madras 1.
Rayon Traders (P) Ltd.—61, Sembudoss Street, Madras.
R. C. & Co., Agencies.—107, N.S.C. Bose Road, Madras 1.
Reynolds & Co.—16, Theagaraya Gramani Street, T. Nagar,
Madras 17.
Sayee Co.—49, Badrian Street, Madras.
Solisar & Co.—11/285, Malayaperumal Street, Madras 1.
Southern Sales Corpn.—2/52, Anderson Street, Madras.
Star Trading Co.—58, Anderson Street, Madras.
Subramaniam Brothers.—31, Broadway, Madras 1.

Subramaniam Bros.—99, Armenian Street, Madras.
 S. V. Mani & Co.—27, Angappa Naick Street, Madras.
 T. Chelvaranga Mudaliar & Sons.—289, Stringer Street, Madras.
 T. M. Abdul Azeez & Co.—10, Badrian Street, Madras 1.
 T. H. Gangappa & Sons.—11, Broadway, Madras.
 T. M. Abdul Azeez & Co.—10, Badrian Street, Madras.
 T. V. Subramaniam & Co.—49, Bunder Street, Madras.
 Vasu & Co.—12, Thambu Chetty St., Madras 1.
 Victory Corporation.—53/1, Edward Elliot Road, Madras 4.
 V. Perumal Chetty & Sons.—3, Stringer Street, Madras.
 V. Rajagopalan.—61, Badrian Street, Madras.
 V. V. Rao & Bros.—6-A, Warren Road, Madras 4.

PENCILS

Madras Pencil Factory.—Kathivakkam High Road, Madras 21.
 Standard Pencil Factory.—Super 6, Industrial Estate, Guindy, Madras 32.

PERFUMES & COSMETICS

Aromatic Chemical & Oil Co., Ltd.—7A, Singanna Naick Street, Madras 1.
 Best & Co., Ltd.—13/15, 1st Line Beach, Madras 1.
 Ganga Works.—53, Lattice Bridge Road, Adyar, Madras 20.
 McDowell & Co., Ltd.—22/23, Moore Street, Madras 1.
 National Trading Co.—43, Velacheri Road, Madras 32.
 Orient Cosmetics P. Ltd.—Super A-7, Industrial Estate, Madras 32.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
 Veto Co.—16, Jones Street, Madras 1.

PEST CONTROL

PEST CONTROL (INDIA) PRIVATE LTD.

Consulting Entomologists—Termite Control—Disinfestation—Fumigation Service
 Address: 2, Errabalu Chetty Street, P. Box No. 102, Madras-1. Phone: 24835, 26497
 H.O. Yusuf Bldg., Mahatma Gandhi Road, Bombay-1.

(For further details please see Bombay Commercial Firms Section.)

PHOTOGRAPHIC MATERIAL DEALERS

Agfa Gevart India Ltd.—34, Mount Road, Madras 2.
 Central Camera Co. P. Ltd.—35/4, Mount Road, Madras 2.
 Heatly & Gresham Ltd.—Bombay Mutual Bldgs., Madras 1.
 Hford Selo (India) Pvt. Ltd.—2-3, Woods Road, Madras 2.
 Klein & Peyerl—30, Mount Road, Madras 2.
 Kodak Ltd.—150/B, Mount Road, Madras 2.
 Photo Cine Stores.—97/98, Armenian Street, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.
 Vaman Brothers—39, Spurtank Road, Madras 31.

PUMPS AND PUMPING SETS MANUFACTURERS AND DEALERS

Best & Co., Ltd.—13/15, North Beach Road, Madras 1.
 Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
 Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
 Chandra Foundries Private Ltd.—55, Basin Bridge Road, Washermanpet, Madras 21.
 Diamond Engineering Co.—6, Erabalu Chetty St., Madras 1.
 Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
 G. Janshi & Co.—2/163, Mount Road, Madras 2.
 Gordon Woodroffe & Co., Ltd.—1/21, North Beach Road, Madras 1.
 Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
 Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
 Heatly & Gresham, Ltd.—Bombay Mutual Bldg., Madras 1.
 Jaec Pumps Ltd.—2/17G, Mount Road, Madras 2.
 Jyoti Ltd.—177-79, Mount Road, Madras 2.
 Kilburn & Co., Ltd.—153, Mount Road, Madras 2.
 Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
 Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
 Masseys Engineers—4B-4C, North Railway Terminus Road, Royapuram, Madras 13.
 National Engineering Co. (Madras) Ltd.—379, Netaji Subhas Chandra Bose Road, Madras 1.
 Parry & Co., Ltd.—“Dare House”, First Line Beach, Madras 1.
 P. Natesan (Industries) Ltd.—191, Triplicane High Road, Madras 5.
 Refrigerators & Home Appliances Ltd.—36, Mount Road, Madras 2.
WATER SUPPLY SPECIALISTS PRIVATE LTD.—330, Thambu Chetty Street, Madras 1. Phone: 23436; Grams: “PUMP-MEN”; Branches: Calcutta, New Delhi and Secunderabad. Sole Agents for Myers Pumps; Manufacturers of “WASP” Pumping Sets, etc.

William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

RADIO & RADIO PARTS MFRS. & DEALERS

Alpha Radio & Novelities P. Ltd.—9, Mount Road, Madras 2.
 Amson & Co.—38C, Mount Road, Madras 6.
 Arrow Radio Co.—22, General Patters Road, Madras 2.
 Asiatic Radio Co.—4/169, Mount Road, Madras 2.
 Britannia Talking Machine Co.—173, China Bazar, Madras 1.
 Conjap Electronic Industries.—64, Dr. Alagappa Chettiar Road, Vepery, Madras 7.
 Electronic Service Co.—17/35, Mount Road, Madras 2.
 General Agencies.—2/60, Mount Road, Madras 2.
 General Radio & Appliances Pvt. Ltd.—18/20, Buddha Perumal Naicken Street, Madras 2.
 General Radio Co.—3, Ritchie St., Mount Road, Madras 2.
 G.K. Syndicate—118, Armenian Street, Madras 1.
 India Radio House.—9, Mount Road, Madras 2.
 International Talkie Equipment Co. Pvt. Ltd.—18, Mount Road, Madras 2.
 Jay-O-Phone Co.—13, Mint Street, Madras 3.
 Jaypee Electronics.—1/155, Mount Road, Madras 2.
 Lalwani Radio Corporation.—180, Narasingapuram Street, Madras 2.
 Mahomed Ebrahim & Co. Pvt. Ltd.—Victory House, 7/8, Mount Road, Madras 2.
 Motwane Pvt. Ltd.—196, Mount Road, Madras 2.
 National Electronics.—53-A, Usman Road, T. Nagar, Madras 17.
 Obul Reddy (Madras) P. Ltd.—31, General Patters Road, Madras 2.
 Oriental Radio Corporation.—162, Mount Road, Madras 2.
 Phillips India Ltd.—35-4, Mount Road, Madras 2.
 Poppat Jamal & Sons.—182, Broadway, Madras 1.
 Radio & Allied Engineering Co.—4/17-B, Mount Road, Madras 2.
 Radio & Electricals Ltd.—8/1, Victoria Crescent, Madras 8.
 Radio Services.—10, Mount Road, Madras 2.
RESA CO.—Manufacturers of Domestic, Industrial and Community Radios, Amplifiers, Transformers and Coils; Factory: B-8 & 9, Industrial Estate, Guindy, Madras-32; Office: 11, Mount Road, Madras-2.
 Savit Electronic Corp.—2, Ritchie Street, Mount Road, Madras 2.
 Singh Trading Co.—9, Blacker's Road, Madras 2.
 South India Music Emporium.—3, Broadway, Madras 1.
 Southern Agencies.—37, Waller's Road, Madras 2.
 Standard Electric Co.—27, General Patters Road, Madras 2.
 Standard Radio & Electric Co.—26, Pycrofts' Road, Madras 5.
 Vauhini Radios.—126, Mint Street, Madras 1.
 V. S. Rajagopalan & Co. P. Ltd.—1/1, Vadapalani Andavar Temple Street, Madras 26.
 Wireless Sales & Service Co.—1/11-A, Mount Road, Madras 2.

RUBBER GOODS MANUFACTURERS AND DEALERS

Asiatic Tyres.—71, General Patters Road, Madras 2.
 Best & Co., Ltd.—North Beach Road, Madras 1.
 Bombay Co., P. Ltd.—169, Broadway, Madras 1.
 Dunlop (India) Ltd.—Ambattur, Madras 53.
 East India Rubber Works Private Ltd.—24/27, Mooker Nallamuthu Street, Madras 1.
 Firestone Tyre & Rubber Co. (India) Ltd.—Woods Road, Madras 2.
 General Rubber & Latex Industries.—10, Kathiawakkam High Road, Madras 21.
 Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 Goodyear Tyre & Rubber Co. India Ltd.—2, Patullos Road, Madras 2.
 Kilburn & Co., Ltd.—153, Mount Road, Madras 2.
 Madras Rubber Factory Ltd.—175/1, Mount Road, Madras 2.
 M. M. Rubber Co., P. Ltd.—175/1, Mount Road, Madras 2.
 National Rubber Mfrs. Ltd.—4, Smith Road, Madras 2.
 Oriental Rubber Trading Co. (Madras) P. Ltd.—7, Shafee Mahomed Road, Madras 6.
 Rubber-Age.—20, Venkatachala Mudali Street, Madras 3.
 Ruby Rubber Works (Madras) Ltd.—8, Greaves Road, Madras 6.
 Shriman Enterprises.—34, Sembudoss Street, Madras 1.
 South India Rubber Works.—9, Sembudoss Street, Madras 1.
 Spencer & Co., Ltd.—Mount Road, Madras 2.

SANITARY-WARES AND FITTINGS

Bafna & Co.—308, Thambu Chetty Street, Madras 1.
 Bharat Sanitary Stores.—29, Periana Maistry Street, Madras 1.
 Calcutta Light Casting Supply Co.—19, Errabalu Chetty Street, Madras 1.
 Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
 King & Company.—321, Thambu Chetty Street, Madras 1.
 Madras Sanitary Mart.—418, Triplicane High Road, Madras 5.
 Madras State Small Industries Corp. Ltd.—35/2, Woods Road, Madras 2.
 Murugappa.—11/12, North Beach Road, Madras 1.
 New India Sanitary Stores.—85/7, Sembudoss Street, Madras 1.

NEIVELI CERAMICS & REFRACTORIES LTD.,

(A Seshasayee Associate)
Vadalur P. O.; South Arcot Dist.,
Madras State.

Manufacturers of elegant NEY CERAMAG Vitreous China Sanitarywares in Technical Collaboration with KERAMAG of West Germany. Available in Sparkling White and Pastel Shades; Wash-basins, Indian & European type Water Closets, Urinals Pedestals, Sinks, Cisterns, Toilet Accessories and for the first time in India anti-splash European type Water Closets and Wash Basins—all produced with sleek elegance, are sturdy and strong to last for a life time.

P. A. Govardhan Das—13/81, Sembudoss Street, Madras 1.
Raval & Co.—306, Linghi Chetty Street, Madras 1.
Sanitary Sales & Service.—26, Thambu Chetty Street, Madras 1.
Sattar Sanitary Stores.—1, Vaniar Street, Madras 1.
Vijaya Trading Corporation.—320, Thambu Chetty Street, Madras 1.

SCIENTIFIC INSTRUMENTS

Acme Trading Corp.—113, Armenian Street, Madras 1.
Adair, Dutt & Co. (India) Pvt. Ltd.—1/29, Mount Road, Madras.
Andhra Scientific Co. Ltd.—4, Blacker's Road, Madras 2.
Central Scientific Supplies Co. Ltd.—17, Stringer Street, Madras 1.
D. C. Shah & Co.—235, Walltax Road, Madras 5.
Dutta Scientific Works—5, Sunkurama Chetty Street, Madras 1.
Free India Scientific Co.—74/A, Kothavalchavadi Street, Madras 15.
General Radio & Appliances Pvt. Ltd.—18/20, Buddha Perumal Naicken Street, Madras 2.
Global Agencies.—100, Narayana Mudali Street, Madras 1.
Gordhandas Desai P. Ltd.—22, Linghi Chetty Street, Madras 1.
HARGOLAL & SONS.—The Science Apparatus Workshop,
302, Linghi Chetty Street, Madras; H.O. Ambala Cantt.,
Branches: Tilak Road, G.P.O. Lane, Hyderabad (AP), 25,
Bowring Hospital Road, Bangalore-1; C-767, Mahanagar,
Lucknow; Manufacturers and Dealers in Scientific
Instruments, Laboratory Glassware and Chemicals, Physio-
logy Models Charts, Engineering Models and Apparatuses.
Keroy P. Ltd.—13, Wahab Street, Madras 24.
Premier India Scientific Co. Ltd.—1-33, Varadarajulu Naidu Road,
Madras 8.
Scientific Instrument Co. Ltd.—30, Mount Road, Madras 2.
Standard Scientific Instruments Co.—115, Ramakrishna Math
Road, Madras 28.
Toshniwal Bros. P. Ltd.—9, Blackers' Street, Madras 2.
United Scientific Co.—293, Linghi Chetty Street, G. T. Madras 1.

SNUFF MANUFACTURERS AND DEALERS

SRI AMBAL & CO.—201, Mint Street, Madras 1. Phone: 32061.
Grams: "BRAHMAPODI".
Shanmugham Snuff & Co.—233-34, T. H. Road, Madras.

STAINLESS STEEL

Indo-Metal Industries.—2, Cross Road, Madras 21.
Metalware & Co.—23, Errabali Chetty Street, Madras 1.
Mysore Premier Metal Factory.—127, Mint Street, Madras 1.
Nachiappa Metal Corporation.—268, Linghi Chetty Street, Madras 1.
B. D. & Sons.—16, Lakshmidas Street, Park Town, Madras 3.

COIMBATORE COMMERCIAL FIRMS

Acme Textiles, Trichy Road, Coimbatore.
Addisons & Co., Ltd., Avanashi Road,
Coimbatore.
Arvind & Co., 255, Oppanakara Street,
Coimbatore.
A. T. N. Stainless Steel Industries, 346,
Raja Street, Coimbatore.
Avery Co., Ltd., Trichy Road, Coimbatore.
Batliboi & Co. Pvt. Ltd., 172, Avanashi Road,
Coimbatore.
Binny & Co. Madras Ltd., Post Box No. 69,
Coimbatore.

Bluemount Switchgears Associates Switch-
gears Ltd., Patel Road, Ranganatha-
puram, Coimbatore 9.
Bradma of India P. Ltd., 109/110, Avanashi
Road, Coimbatore.
Brady & Co., Ltd., W. H., Jail Road,
Coimbatore.
British Insulated Callender's Cables Ltd.,
Race Course Road, Coimbatore.
Broadway Engineering & Transport Co.,
5/15, Old Post Office Road, Coimbatore.
Brooke Bond India Ltd., Krishnaswamy
Mudaliar Road, Coimbatore.

Caltex (India) Ltd., Avanashi Road,
Coimbatore.
Carbon Products of India Private Ltd.,
Trichy Road, Coimbatore 1.
Cement Marketing Co. of India Ltd., Race
Course Road, Coimbatore.
Central India Machinery Mfg. Co. Ltd.,
Variety Hall Road, Coimbatore.
Chromotan (Cbe.) Ltd., 2/249, Avanashi
Road, Coimbatore.
Coimbatore Premier Corporation P. Ltd.,
Patel Road, Coimbatore
Cotton Textiles Ltd., Mall Mill Road,
Coimbatore.

STEEL FURNITURE & FITTINGS

Godrej & Boyce Mfg. Co. P. Ltd.—177-179, Mount Road, Madras 2.
Tamilnad Thozilagam.—40, Whites Road, Madras 14.
Vellodi Brothers P. Ltd.—6-A, Woods Road, Mount Road, Madras 2.

STRUCTURAL & MECHANICAL ENGINEERS

Structural Steelwork & Steel & Alloy Steel Castings
KOWTHA STEEL PRODUCTS, RAMAVARAPPADU,
Krishna Dist.

PROPRIETORS:

**INDIAN COMMERCE & INDUSTRIES CO.
P. LTD.,**

95, Broadway, Madras-1.

Phone: 21071

Grams: 'BEEHIVE'

SURGICAL INSTRUMENTS AND APPLIANCES

Associated Surgicals (India).—Arumuga Naicken Street, Mount
Road, Madras 2.
Becker Scientific Co.—15, Armenian Street, Madras 1.
Bengal Surgical Co.—8/1, Semmunath Mudali St., Madras 1.
Bombay Surgical Equipment Co.—8, Sunkurama Chetty Street,
Madras 1.
Dhan Surgical Co.—4/1, Edayapalayam Lane, P.T., Madras 3.
East Asiatic Co. of India Ltd.—16, First Line Beach, Madras 1.
Forward Surgical Co.—105, Nyniappa Naick Street, Madras 1.
Hale & Co.—1/288, N.S.C. Bose Road, Madras 1.
Hospital Equipment Mfg. Co.—1, Iron Moulder Street, Madras 1.
Hospital Requisites Co.—14-11, Cross Road, Madras 23.
Indian Sterilizer Co.—13, Devanatha St., Madras 28.
Medical Equipment Co.—Jammi Bldgs., Royapettah High Road,
Madras 4.
Modern Surgical Co.—4/124 G, Purasawalkam High Road, Madras 10.
National Surgica. Eng. Works.—187, Mount Road, Madras 2.
Pikay's Medico Surgicals.—199, Mount Road, Madras 2.
South India Surgical Co.—128, Nyniappa Naick Street, Madras 3.

TIN PRINTERS & BOX MAKERS

METAL PRINTERS CO., THE,—Manufacturers of metal
Posters, Calendars, Decorated Containers, Trays, Toys,
Clock Dials etc., Room No. 2, 1st Floor, 524, Ponnappa Mudali
Street, Purasawalkam Market gate, Madras-12.

TRAVEL AGENTS

Asian Travels (India) P. Ltd.—1, Pattulos Road, Bombay 2.
Orient Express Co. Private Ltd., The.—Agurchand Mansion, 85,
Mount Road, Madras-2.
Trade-Wings (Private) Ltd.—Purushottam Bldgs., 193, Mount
Road, Madras.

TYPEWRITERS

Godrej & Boyce Mfg. Co., Private Ltd.—177 & 179, Mount
Road, Madras 2.
Rayala Corporation (Madras) Ltd.—"Rayala Bldgs.", 1/155, Mount
Road, Madras 2.
REMINGTON RAND OF INDIA LTD.—Business that serves
all Business Typewriters and Business Systems; 38/3, Mount
Road, Madras 6. Phone: 86484 (3 lines); Grams: "REMING-
TONS."

WIRE AND WIRE PRODUCTS

Indian Wire Products Industries.—B-14 & 15, Industrial Estate,
Madras 32.
North South Commercial Corporations.—239, Angakka Naicken
Street, Madras 1.
Southern Industrial Corp. (P) Ltd.—99, Armenian Street, Madras 1.

D. Engineering P. Ltd., Coimbatore 18.
 Diesel (India) Coimbatore, 124-B, Trichy Road, Coimbatore.
 Electro-Diesel Equipment Co., 23, Avanashi Road, Coimbatore.
 Ganapathy Engineering Mfrs. Private Ltd., Ganapathy, Coimbatore 6.
 Gannon Dunkerley & Co., Ltd., Power House Road, Coimbatore.
 Garlick & Co. Ltd., Cox Street, Coimbatore.
 General Electric Co. of India Ltd., "Magnet House," Avanashi Road, Coimbatore.
 George Oakes Ltd., Avanashi Road, Coimbatore.
 Gordon Woodroffe & Co. (Madras) Ltd., Fraser Square, Coimbatore.
 Greaves Cotton & Co. Ltd., India House, Trichy Road, Coimbatore.
 Hindustan Carbonic Products, Podanur (Dt. Coimbatore).
 Imperial Tobacco Co. of India Ltd., United India Bldg., Avanashi Road, Coimbatore.
 India Silicate Industry, Fraser Square, Coimbatore.
 Indian Cable Co. Ltd., 4/2, Race Course Road, Coimbatore.
 Indian Cashewnuts & Plantations Ltd. (Managing Agents, T. Stanes & Co., Ltd.), Coimbatore.
 Indian Hume Pipe Co., Ltd., Ranganathapuram, Coimbatore.
 Indian Overseas Trading Co., Ltd., Power House Road, Coimbatore.
 Indian Refrigeration Industries P. Ltd., Singanallur, Coimbatore 5.
 Indo-Swiss Synthetic Gem Mfg. Co. Ltd., Mettupalayam (Dt. Coimbatore).

Industrial Equipment & Stores Agencies, 7/105, Jail Road, Coimbatore.
 Jayems Engineering Co., Oppanakara Street, Coimbatore.
 Jensen & Nicholson P. Ltd., 7/219, Avanashi Road, Coimbatore 1.
 Kilburn & Co. P. Ltd., Post Box 763, Coimbatore 2.
 K. N. D. Tool & Equipment Co., Lakshmi Bldg., Patel Road, Coimbatore 9.
 Madras Circle Pipe Dealers' Assn. Ltd., 4/2, Race Course Road, Coimbatore.
 Madras Phosphate Manufacturers P. Ltd., 51, Ponnurangam Road, Coimbatore 2.
 Meccano Floorings Ltd., College Road, Coimbatore.
 Mopeds (India) Ltd., No. 1, Palaniswamy Naidu Street, Avanashi Road, Coimbatore.
 Nanco Rubber & Plastics Ltd., A.T.T. Colony, Coimbatore.
 Needlex Industries (India) Ltd., Post Box No. 12, Coimbatore.
 Pagefield Agencies, Coimbatore 9.
 Parry & Co., Ltd., Fraser Square, Coimbatore.
 Patel Cotton Co., Ltd., Avanashi Road, Coimbatore.
 Peirce Leslie & Co., Ltd., Race Course Road, Coimbatore.
 Praga Industries P. Ltd., Peelamedu, Coimbatore 4.
 Rainbow Sewing Thread Co., 14/191, Lingappa Chetty Street, Coimbatore.
 Rallis India Ltd., Avanashi Road, Coimbatore.
 Ramu Foundry, Pappanaicken Palayam, Coimbatore.

Rayon Traders P. Ltd., United India Bldg., Avanashi Road, Coimbatore.
 Remington Rand of India Ltd., 12/204, Oppanakara Street, Coimbatore.
 South India Corporation P. Ltd., 10/25, Jail Road, Coimbatore.
 South India Sanfts, S. M. Pudur P.O. Ondiputhur, Coimbatore.
 Spencer & Co. Ltd., Coimbatore.
 Stanes Amalgamated Estates Ltd., Race Course Road, Coimbatore.
 Stanes Motors (South India) Limited, (Managing Agents & Secretaries: T. Stanes & Co., Ltd.), Post Box No. 12, Race Course Road, Coimbatore.
 Tea Estates India P. Ltd., Race Course Road, Coimbatore.
 Textile Machinery Manufacturers Ltd., Avanashi Road, Coimbatore 1.
 Textool Company Limited, Ganapathy, Coimbatore 6.
 Titan Paints and Varnishes Ltd., Podanur P. O., Coimbatore.
 T. V. Sundaram Iyengar & Sons, P. Ltd., Mettupalayam Road, Coimbatore.
 Uberoi Limited, 8/23, Avanashi Road, Coimbatore.
 United Nilgiri Tea Estates Co., Ltd., Post Box No. 12, Coimbatore.
 Vitamin Products Co., 213, Tatabad, Coimbatore 12.
 Voltas Ltd., Race Course Road, Coimbatore.
 V. T. S. Castor Oil Mfg. Co., Ltd., Sastri Road, Ranganathapuram, Coimbatore.
 Wakefield Engineering Co., Jail Road, Coimbatore.

CLASSIFIED LIST OF TRADES & PROFESSIONS

AUTOMOBILE ENGINEERS

Associated Automobiles Ltd.—Avanashi Road, Coimbatore.
 Autocraft Automobile Electrical Engineers.—9/93, Dewan Bahadur Road, Coimbatore 2.
 Auto-Reconstruction Works.—Cross Street Road, Coimbatore 1.
 Bluemount Auto Service.—Mettupalayam, Coimbatore.
 George Oakes Ltd.—Avanashi Road, Coimbatore.
 Gibson's Auto Service.—Mettupalayam, Coimbatore.
 India Services (Coimbatore) Ltd.—4/105, Trichy Road, Coimbatore.
 Modern Motor Works.—Fraser Square, Coimbatore.
 National Motor Works.—Trichy Road, Coimbatore.
 Southern Motors.—Trichy Road, Coimbatore.
 South India Corporation (Madras) Ltd.—Jail Road, Coimbatore.
 Standard Automobiles.—Crosscut Road, Coimbatore.
 Stanes Motors (South India) Ltd.—Trichy Road, Coimbatore.

CENTRIFUGAL PUMPS MANUFACTURERS

Dhandayuthapani Foundry Private Ltd.—Pappanaickenpalayam, Coimbatore 1.
 Eastern Electrical Co. Ltd.—Singanallur, Coimbatore 5.
 Ganapathy Engineering Manufacturers Private Ltd.—Post Box No. 6, Ganapathy, Coimbatore 6.
 P. S. G. Industrial Institute.—Peelamedu P. O., Coimbatore 4.

COTTON MILLS

The Anandakumar Mills Ltd.—Sravanampatti P.O., Coimbatore.
 Asher Textiles Limited.—Tirupur.
 Sri Balasubramania Mills Limited.—Singanallur P.O., Coimbatore 5.
 The Bhavan Mills Ltd.—6/3-B, Race Course, Coimbatore 1.
 The Cambodia Mills Limited.—P. B. No. 281, Singanallur, Coimbatore 5.
 The Chandra Textiles Ltd.—Peelamedu, Coimbatore 4.
 The Coimbatore Cotton Jubilee Mills.—Singanallur, Coimbatore 5.
 The Coimbatore Kamala Mills Ltd.—Uppilipalayam, Singanallur P.O., Coimbatore 5.
 The Coimbatore Murugan Mills Ltd.—P.B. No. 703, R. S. Puram P.O., Coimbatore 2.
 The Coimbatore Pioneer Mills Ltd.—P.B. No. 4, Peelamedu P.O. Coimbatore 4.
 The Coimbatore Spg. & Wvg. Co. Ltd.—P.B. No. 24, Coimbatore.
 The Dhanalakshmi Mills Ltd.—P.B. No. 29, Tirupur.
 The D.P.F. Textiles Ltd.—Mettupalayam Road, Gnanambikai Mills P.O., Coimbatore.
 The Gnanambikai Mills Ltd.—Gnanambikai Mills Post, Coimbatore.
 G. Ramaswamy & Co.—Ganga Textiles, P.B. No. 279, Pappanaickenpalayam, Coimbatore.
 The Gobald Textiles Ltd.—Tirupur.

Sri Hari Mills Ltd.—P.B. No. 27, Singanallur P.O., Coimbatore 5
 The Janardhana Mills Ltd.—Uppilipalayam, Singanallur P.O., Coimbatore 5.
 The Jayalakshmi Mills Ltd.—P.B. No. 10, Singanallur P.O., Coimbatore.
 The Jothi Mills.—Perianaickenpalayam, Sri Ramakrishna Vidyalaya P.O., Coimbatore.
 The Kadri Mills (CBE) Ltd.—P.B. No. 19, Odderpalayam, Singanallur P.O., Coimbatore 5.
 The Kannapiran Mills Ltd.—Sowripalayam P.O., Coimbatore.
 The Karthikeya Spg. & Wvg. Mills Ltd.—P.B. No. 18, Singanallur P.O., Coimbatore 5.
 The Karunambikai Mills Ltd.—Somanur P.O., Coimbatore Dist.
 The Kasthuri Mills Ltd.—Singanallur P.O., Coimbatore 5.
 The Kothari Textiles Ltd.—Singanallur P.O., Coimbatore 5.
 The Krishnaveni Textiles Ltd.—P.B. No. 25, Singanallur P.O., Coimbatore 5.
 The Kumaran Mills Ltd.—Peelamedu P.O., Coimbatore 4.
 The Kwaliti Spinning Mills Ltd.—Pollachi.
 The Lakshmi Mills Co. Ltd.—P.B. No. 31, Pappanaickenpalayam, Coimbatore.
 The Lakshminarayana Textiles Ltd.—Vadugapalayam, Palladam Taluk, District Coimbatore.
 The Lotus Mills Ltd.—Sundarapuram P.O., Podanur.
 Narasimha Mills Ltd.—Kannanpalayam, Sulur P.O., Coimbatore.
 Natesar Spg. & Wvg. Mills Ltd.—Erode.
 Om Parasakthi Mills Ltd.—Krishnarayapuram, Ganapathy P.O., Coimbatore 6.
 The Palamalai Ranganathar Mills Ltd.—Perianaickenpalayam, Sri Ramakrishna Vidyalaya P.O., Coimbatore.
 The Palani Andavar Mills Ltd.—Dhalli Road, Udamalpet, Coimbatore Dist.
 The Pankaja Mills Ltd.—P.B. No. 150, Puliakulam, Coimbatore.
 Pioneer Textiles Ltd.—Vedapatty P.O., Coimbatore.
 The Prakash Mills Ltd.—P.B. No. 12, Peelamedu, Coimbatore.
 The Premier Mills (Coimbatore) Ltd.—Pulankinar, R. S. Udamalpet.
 The Premier Mills (Coimbatore) Ltd.—Othakalmandapam Branch, Coimbatore.
 The Radhakrishna Mills Ltd.—Peelamedu, Coimbatore 4.
 The Radhika Mills Ltd.—5/179, Uppilipalayam, Coimbatore 5.
 The Rajalakshmi Mills Ltd.—Singanallur P.O., Coimbatore 5.
 Sri Ramakrishna Mills (CBE) Ltd.—Ganapathy P.O., Coimbatore 6.
 The Ramalinga Choodambikai Mills Ltd.—Tirupur.
 The Ramnarayan Mills Ltd.—Perianaickenpalayam, Coimbatore.
 The Ranga Vilas Ginning, Spg. & Wvg. Mills Ltd.—P.B. No. 3, Peelamedu, Coimbatore 4.
 The Raveendran Mills Ltd.—P. B. No. 26, Singanallur P.O., Coimbatore 5.

The Sakthi Textiles Ltd.—Post Box No. 36, Pollachi.
 The Sarada Mills Ltd.—Loganathapuram, Podanur.
 Sarguna Textiles.—Sulur P.O., Coimbatore.
 The Saroja Mills Ltd.—Singanallur P.O., Coimbatore 5.
 The Selvaraj Mills Ltd.—Singanallur P.O., Coimbatore 5.
 The Sivananda Mills Ltd.—Ganapathy P.O., Coimbatore 6.
 The Somasundaram Mills Ltd.—P.B. No. 134, Coimbatore.
 The Southern Textiles Ltd.—Sulur Post, Coimbatore.
 The Sujani Textiles Ltd.—Sowripalayam P.O., Coimbatore.
 The Suryaprabha Mills Ltd.—Kuniamuthur, Coimbatore.
 The Tirumurthi Mills Ltd.—Udamalpet, Coimbatore District.
 The Tirupur Cotton Spg. & Wvg. Mills Ltd.—P.B. No. 12, Tirupur.
 United Bleachers P. Ltd.—Mettupalayam.
 The Varadarajah Textiles Ltd.—Peelamedu P.O., Coimbatore 4.
 The Vasantha Mills Ltd.—P.B. No. 16, Singanallur P.O., Coimbatore 5.
 The Vasudeva Industries Ltd.—Odderpalayam, Singanallur, Coimbatore 5.
 The Venkatesa Mills Ltd.—Venkatesa Mills Post, Udamalpet, R.S.
 The Vijayalakshmi Mills Ltd.—Kuniamuthur Post, Coimbatore.
 The Vijayeswari Textiles Ltd.—Pulliampatti, Pollachi.

COTTON TEXTILE MACHINERY

LAKSHMI MACHINE WORKS LTD.—Registered Office: 348, Avanashi Road, Coimbatore 1.

COTTON WASTE MERCHANTS AND EXPORTERS

PURUSHOTHAM MURARJEE.—Post Box 1051, Saibaba Mission Post, Coimbatore, 11, Cotton Waste for Re-spinning, Waddings, Surgical Dressings, Upholstery, Bedding, etc., and Engine Cleaning Waste; Phone: 24178; Cable: "CHEAP", Coimbatore; (for Personal Visits: Devaki Villa, Ramalinganagar, Opp. Saibaba Colony). Bankers: The Indian Overseas Bank Ltd., Codes: Bentley's complete and Second phrase ABC 5th and 6th editions.

ELECTRIC MOTORS, PUMPS & PUMPING SETS

Argus Engineering Co., Ltd.—Peelamedu, Coimbatore 4.
 Balasubramania Foundry.—Patel Road, Coimbatore.
 Coimbatore Premier Corporation P. Ltd., Avanashi Road, Coimbatore.
 Eastern Electrical Co., Ltd.—Singanallur, Coimbatore 5.
 Eletex Engineering Corporation P. Ltd., 5/4, H. Q. Road, Coimbatore 1.
 Excel Industries.—P. Box 1, Coimbatore 11.
 Karthikeya Foundry.—Puliakulam Road, Pappanaickenpalayam, Coimbatore 1.
 Leader Industries—8, Tarabad, Coimbatore 12.
 Moulvi & Sons, Crosscut Road, Coimbatore 9.
 Navamani & Co., Pappanaickenpalayam, Coimbatore 1.
 P. S. G. Industrial Institute.—Peelamedu P.O., Coimbatore 4.
 Sri Sakti Engineering Works.—Avanashi Road, Coimbatore 4.
 Texmo Industries.—Mettupalayam Road, R. S. Puram Post, Coimbatore 2.
 T. R. Industrials.—Coimbatore 8.

ELECTRICAL GOODS & APPLIANCES

STANDARD COMMERCIAL CORPORATION.—Avanashi Road, Post Box No. 1314, Coimbatore 18; Phone: 22518; Grams: "STACOMCO"; G.E.C., Philips, A.E.I., Crompton and I.C.C. Dealers.

ENGINEERING

Arrow Industrial Works.—Krishnaswami Mudallar Road, Coimbatore.
 Cotexme Engineering Corporation.—1/19, Trichy Road, Coimbatore 5.
 Everest Engineering Works.—Crosscut Road, Coimbatore.
 Ganapathy Engg. Manufacturers P. Ltd.—Ganapathy, Coimbatore 6.
 General Engineering Co.—Sardar Patel Road, Ramanathapuram, Coimbatore.
 Govardhana Engineering Industries—Ukkadam South, Coimbatore 1.
 Industrial Engineering Co. (Cbe.) P. Ltd.—Fraser Square, Coimbatore.
 Industrial & Scientific Works, Fraser Square, Coimbatore.
 Jayachander Engineering Industries.—Mettupalayam Road, Coimbatore 2.
 Kasturi Engineers Ltd.—P.O. Box 231, Coimbatore.
 Lakshmi Machine Works Ltd.—348, Avanashi Road, Pappanaickenpalayam, Coimbatore 1.
 Measureall Engineering Co. Private Ltd.—Singanallur, Coimbatore 5.
 New City Engineering Works.—Patel Road, Coimbatore.
 Nirmala Engineering Works.—Krishnaswami Mudallar Road, Coimbatore.
 P.N.R. Engineering Works.—Big Bazar Street, Coimbatore.
 Prabhakar Industries.—100 Ft. Road, Tatabad, Coimbatore 11.
RADHA FOUNDRY.—6/2, Blackstone Road, Red Fields, Coimbatore 18.
 Rockford Engineering Co.—1/22, Avanashi Road, Coimbatore.

Sivananda Metal Works.—Mill Road, Coimbatore.
 Southern Engineering Industries.—2/242, Avanashi Road, Coimbatore 1.
 Sreevatsa Engineering & Trading Co.—Patel Road, Coimbatore.
 Star Electro Plating Works.—Variety Hall Road, Coimbatore.
 United Engineering Co.—Avanashi Road, Coimbatore.
 Vasa Engineering Industries.—Krishnaswami Mudallar Road, Coimbatore.

MACHINERY MFRS. & DEALERS

Abbol Machine Tools P. Ltd.—Singanallur, Coimbatore 5.
 Associated Electrical Industries Ltd.—Race Course Road, Coimbatore.
 Auto Equipment Machinery Co.—8/46, Jail Road, Coimbatore.
 Central India Machinery Mfg. Co. Ltd.—Variety Hall Road, Coimbatore.
 Coimbatore Machinery & Metal Mart.—Fraser Square, Coimbatore.
 Crompton Engineering Co. (Madras) Ltd.—Arts College Road, Coimbatore.
 Engineering & Industrial Foundry Co.—Coimbatore 9.
 Gallakotwala & Co. Ltd. C. A.—Grey Town, Coimbatore.
 Garlick & Co.—Cox Street, Coimbatore.
 Jayems Engineering Co.—14/246, Oppanakara Street, Coimbatore.
 Madras Machine Tools Manufacturers Ltd.—8/146-B, Trichy Road, Coimbatore 5.
 Machinery Mfrs. Corporation Ltd.—Gowders Colony, Tatabad, Coimbatore 12.
 Pioneer Foundry.—167, Patel Road, Coimbatore 9.
 Revathi Machinery Traders.—Gudipudur, Coimbatore 5.
 Sree Radhakrishna Industries—Krishnarayapuram, Coimbatore 6.
 Sri Venkatapathi Industries.—9/33, Patel Road, Coimbatore 9.
 U.M.S. Machine Tools.—Avanashi Road, Coimbatore 1.

PACKING MATERIALS

PREMIER PAPER PRODUCTS.—Manufacturers of Flexible Packing Materials, 23, Venkataswamy Road, P.O. Box No. 747, Coimbatore 2.

PEST CONTROL

PEST CONTROL (INDIA) PVT. LIMITED

Consulting Entomologists—Termite Control—Disinfestation—Fumigation Service.
 Post Box 1387, 177, Jail Road, Coimbatore 18. Phone: 25975
 H. O.: Yusuf Bldg., Mahatma Gandhi Road, Bombay 1.
 (For further details please see 'Bombay Commercial Firms Section'.)

TEXTILE ENGINEERS & MACHINERY MFRS. & DEALERS

Altex P. Limited.—Avanashi Road, Coimbatore.
 Argus Engineering Co. Ltd.—Avanashi Road, Coimbatore.
 Bharat Trading Company.—Avanashi Road, Coimbatore.
 C. A. Galiakotwala & Co., Private Ltd.—7/47, Grey Town, Coimbatore.
 Cotexma Engineering Corporation, 1/19, Trichy Road, Coimbatore 5.
 Crompton Engineering Co. (Madras) Ltd.—Arts College Road, Coimbatore.
 Hardware & Machinery Marketing (India) Co.—Police H. Q. Road, Coimbatore.
 International Industries & Agencies Ltd.—Avanashi Road, Coimbatore.
 Kamala Industries.—Kuniamuthur, Coimbatore.
 Kasturi Industries Ltd.—Avanashi Road, Coimbatore.
LAKSHMI MACHINE WORKS LTD.—Registered Office: 348, Avanashi Road, Coimbatore 1.
 Laxmi Reiter Machine Works Ltd.—Shell House, Avanashi Road, Pappanaickenpalayam, Coimbatore 1.
 Mani & Co.—Old Post Office Road, Coimbatore.
 Modern Sales Corporation.—Avanashi Road, Coimbatore.
 Pera Naidu & Sons. A.—Avanashi Road, Coimbatore.
 Pierce Leslie & Co. Ltd.—Race Course Road, Coimbatore.
 P.S.G. Industrial Institute.—Peelamedu P.O., Coimbatore 4.
 Radakrishna & Co.—Avanashi Road, Coimbatore.
 Ramakrishna Industrials P. Ltd.—Peelamedu, Coimbatore 4.
 Ramu Brothers.—Avanashi Road, Coimbatore.
 Textile Machinery Corp., Ltd.—Avanashi Road, Coimbatore.
 Universal Sales Corp.—Avanashi Road, Coimbatore.

COMMERCIAL FIRMS IN BOMBAY

AASHA ENGINEERS

Distributors of Messrs. Union Carbide India Ltd., for Polyethylene Pipes & Accessories.

296, Kalbadevi Road, Bombay-2 BR.

Phone : 311588.

Gram : "HEENASHA."

A. A. MORBIWALA & CO.

Suppliers of : All kinds of wires — Wire Nettings, Plywood, Tinplate and Steel Sheets.

Office : 109-111, Abdul Rehman Street, Bombay-3 BR.

Phone : Office : 323280. Resi. : 365508.

Grams : "VARNISH".

A. Boake, Roberts & Co. (India) Ltd., Harilela House, Bhagatsingh Road, Bombay 1.

A. C. E. C. India Private Ltd., 96, Apollo St., P. B. 893, Bombay 1.

A. M. Master & Co., Weights & Measures Merchants. 179-81, Janjekar Street, Bombay 3. Phone : 326309.

A. M. Motiwalla & Co., 213, Nagdevi Street, Bombay 3.

A. H. WHEELER & CO. PVT. LTD.

Eruchshaw Building, 249, Dr. Dadabhoy Naoroji Road Bombay 1 ; 18, Netaji Subhas Road, Calcutta 1, and 15 Elgin Road, Allahabad.

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Agents for Sir Isaac Pitman & Sons Ltd., Publishers, Virol Ltd., Bovril Ltd., and The Biro Swan Ltd., makers of "Biro" Ball Point Pens.

London Agents :—Arthur H. Wheeler & Co., St. Stephen's House, Victoria Embankment, S.W. 1.

Tel. Address.—"Bookstalls"—Bombay.

Phone No. 263915, Bombay. Post Office Box 204, Bombay 1.

Senior Manager : Mr. V. V. Chhaya.

A. N. Kapur & Co., Court House, Dhobi Talao, Bombay-2.

A. V. JOHN & CO.

Transport Contractors & Clearing/Forwarding Agents.

Address :

"YASHODHAN", Gokhale Road, Thana, Bombay.

Telephone : 591176-593159.

Proprietor : A. G. John.

ABBOTT LABORATORIES (INDIA) PRIVATE LTD., Manufacturing Pharmaceutical Chemists, Jehangir Building, Mahatma Gandhi Road, Fort, Bombay.

Abdoolally Noorbhoy, all kinds of Glass and Plywood Merchant, Govt. & Rly. Contractor, Noorbhoy House, 122-24, Abdul Rehman Street, Bombay 3. Tel. No. 327156. Works : 248-A, Duncan Road, Bombay 8. Tel. No. : 376759. Grams : "PATTYMART".

Abdoolally Noorbhoy, 252, Abdul Rehman Street, Bombay 3.

Abdulahusein E. Contractor, 93, Bapu Khote Street, Bombay 3.

ABDULHUSEIN PEERBHAI & SONS

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Marine Stores, Chains, Wire Ropes, Chain Pulley Blocks, Ship Tackles, Winches etc.

Peerbhai Building, 66-68/A, Bhandari St., Bombay 3.

Phone : 323956

Grams : "STUDCHAIN".

ABDULLABHAI FIDAALLI & COMPANY

Estd. 1890.

Indenting Agents & Stockists of all kinds of :—Paper-Boards & Newsprint.

18, Princess Street, Bombay 2.

Phones : 315407 & 319977

Grams : "PAPERPORT"

Branch at : Nagpur.

Abdul Sattar Noormohamed Private Ltd., 63, Dontad Street, Bombay 9.

ABRAHAM, D. & SONS PRIVATE LTD., Shipping, Clearing, Forwarding and Commission Agents, Hague Building, Sprott Road, Ballard Estate. Tele. Address : "Helal." Phones : Office : 26-1837, 26-1838 & 26-2379. Godown : 377741 & 374097. Residence : 25-0427 & 242958.

ABRAHAM, SHAH & SONS. Freight Brokers & Commission Agents, Hague Building, Sprott Road, Ballard Estate. Phones : 26-1837, 26-2379 & 26-3994.

ABRAWHEEL PRIVATE LTD.

107, Sarang Street, Bombay-3.

Phone : 323214.

Gram : "WHEELABRA".

Stockists & Dealers in Abrasives of all types.

Sole Distributors for :—Coated Abrasives made by Messrs. JOHN OAKEY & MOHAN LTD., for the States of Maharashtra & Gujarat.

Regd. Stockist for : Grinding wheels etc. and Carbide tips & Tools.

Managing Director : Mr. P. G. Desai.

Branches : 1 — 173, Gondal Road, Rajkot. 2 — Relief Road, Ahmedabad.

ACC—VICKERS—BABCOCK LIMITED. Registered Office : 16, Maharshi Karve Road Estate, Bombay-20 BR. Engineers and Contractors, Manufacturers of Babcock & Wilcox Patent Water Tube Boilers, Thermal

Power Plant, Superheaters, Mechanical Stockers, Pressure Vessels, Complete Range of Cement-Making Machinery; Rotary Dryers, Rotary Kilns, Grinding Mills, Crushers for the Mining, Metallurgical, Chemical and all other industries, Heavy Engineering Equipment. All enquiries to be addressed to the *Works and Administrative Office* at P.O. Durgapur 6, Dist. Burdwan, W. Bengal. *Calcutta Office*: Ilaco House, 1 & 3, Brabourne Road, Calcutta 1. *Delhi Representative*: Indra Palace, Suite 27, Connaught Circus, New Delhi 1.

Acme Manufacturing Co. Ltd., Construction House, Ballard Estate, Bombay 1.

ADAIR DUTT & CO., (INDIA) PRIVATE LTD., Importers and Dealers of all kinds of Scientific Instruments, Photographic Cameras. Syndicate Bank Building, Sir Phirozshah Mehta Road, Fort. Phone: 263558. Grams: "LABORIND". *Head Office*: Calcutta.

ADAMJI KADERBHOY, 337, Katha Bazar, P.O. Box No. 5046, Bombay 9. Phone: 322485. Grams: "RAJ-KOTWALA". Manufacturers and Stockists of Cordage Manilla & Sisal, Coir, Hemp and Cotton Ropes. Shipchandlers and approved contractors to Government, Railways and Steamship Companies. Selling Agents:—The Ganges Rope Co., Ltd., Calcutta and Agents in India (except South) for Messrs. Webster & Co. Ltd., Sunderland (England) for Wire Ropes of all kinds. Stockists: Jaya Shree Textiles & Industries Ltd., Rishra, for Flax Twines & Cords, Canvas and Tarpaulins and Jacks Marine Glue.

ADAMJI LOOKMANJI & CO. *Head Office*: Rahimtoola House, Homji Street, Fort. Steel, Tinplate, Hardware, Pipes, Tubes, Fittings, Government Contractors.

Partners:

Y. A. Jasdanwalla.
A. A. Jasdenvala.
G. A. Jasdanwalla.
F. A. Jasdanwalla.
A. Y. Jasdanwalla.
Abbas Y. Jasdanwalla.

Telephone Connections:

Head Office: 258343 & 258417.
Residence: 372960.
Telegraphic Address: "Steelyard."

Adding Machines (India) Private Ltd., 235, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Sole Agents and Service Representatives in India for Burroughs Corporation, Detroit, Michigan, U.S.A. *Directors*: M. M. P. De Souza, Mrs. T. M. Ball, Mrs. R. V. De Souza; *Director and General Manager*: S. H. W. Ball; *Branch Manager*: P. La Bouchardiere; *Service Manager*: P. La Bouchardiere; *Engineers*: T. K. Rakshit, P. Kolambkar, R. Rodrigues, V. G. Redkar, S. Rane, O. Lobo, A. D'Costa; *Secretary*: Miss D. Billimoria. Tel. Address: "DASHPOT". Phone Nos. 261714 and 263910.

Addressograph-Multigraph Corporation, National Cash Register Co., 125, D. Vachha Road, Bombay 1.

Adverts Private Limited. (Advertising & Publicity Service), Established in 1945. *Registered Office*: Syndicate Bank Bldg., Sir Phirozshah Mehta Road, P.O. Box 1833, Bombay 1. *Office*: Mani Mahal, Mathew Road, Opera House, Bombay 4. Phone: 358801. *Managing Director*: Mr. B. Nariman. *Residence Phone No.*: 353304.

Advani & Co. Private Ltd., J. B., Advani Chambers, Sir P. Mehta Road, Fort, Bombay 1.



ADVANI-OERLIKON PRIVATE LTD.,—Manufacturers of Arc Welding electrodes, fluxes, equipment and Electronic Products. *Registered and Head Office*: Radia House, 6, Rampart Row, P. O. Box No. 1546, Bombay-1.

Phone: 290505 Telex: 011-2781.
Grams: "CITOREX", Bombay.

Area Offices: **Bombay**: Dr. Shirodkar Road, Parel Bombay-12, Phone: 442867—Godown: 441600.

Calcutta: P-6, C.I.T. Road, Scheme LV (Moulali), Calcutta-14. Phone: 243017; Grams: "CALCITOREX".

New Delhi: Atmaram Mansion, 2E/28 Jhandewalan Extension, New Link Road, New Delhi-55, Phone: 562414. Telex: 031-7369; Grams: "CITOREX", New Delhi.

Madras: Mohan Mansion, 38-C Mount Road, Madras-6, Phone: 82023; Telex: 041-646; Grams: "MASCI-TOREX", Madras.

Raipur: Industrial Estate, Birgaon Sub-Post Office, Via Raipur M.P.; Phones: 2296/7; Grams: "CITOREX", Raipur.

PLANTS: Lalbahadur Shastri Marg, Bhandup, Bombay-78. Phones: 592566, 592567. Grams: "CITOREX", Bhandup.

Bilaspur Road, P.O. Box No. 19/83, Raipur (M.P.). Phones: 2296 and 2297; Grams: "CITOREX", Raipur.

Melakottaiyur Village (Via) Vandalur, Chingleput District, Tamil Nadu.

Akurdi Village, Chinchwad, Poona-19. Phone: 8351-52, Telex: 014-231; Grams: "CITOREX", Chinchwad.

AEMPHICO ENGINEERING WORKS

Manufacturers of:

Machinery, Spares, Lubricators, Fabricators in Aluminium & Steel, etc. Swadeshi Mills Estate, Opera House, Bombay 4 BR. Phone: 357086.

Grams: "MOTORPOWER".

AFCO LTD., (a wholly owned Subsidiary of the Bombay Burmah Trading Corporation Ltd.); Marine Consultants and Manufacturers of Life Saving Apparatus and Fibreglass Boats, Agents/Distributors for ASL, British Anzani, Mercury and Perkins Outboard Motors and Perkins and Fodens Marine Diesel Engines and Spares. Office at 9, Wallace Street, Fort, Bombay 1 (BR). Phone No. 263031. Grams: "FEDACRETE", Bombay.

Afzal Paper Box Factory, Cardboard Box Mfrs., 43, Foras Road, Bombay 8.

AGFA-GEVAERT INDIA LIMITED, *Head Office*: Merchant Chamber, 41, New Marine Lines, Bombay-20, Phones: 298015, 298062 and 298164. Grams: AGFAGEVA. *Chairman*: D. M. Ghia, *Director*: E. Rittinghaus, *Secretary*: S. R. A. Amudhan, *Chief Accountant*: H. V. Clerk.

Marketing Division :

Marketing Manager : R. L. Narayan ; **Asst. Marketing Manager :** P. V. N. Moorthy.

Branches :

Kasturi Building, Jamshedji Tata Rad, Bombay-20. Phones: 296188 and 296199. Grams: "AGFA-PHOTO". **Branch Manager :** N. A. Shroff. Vohra House, 1/25, Asaf Ali Road, New Delhi-1. Grams: "AGFAPHOTO". **Branch Manager :** R. Sitaram. 2-A, Shakespeare Sarani, Calcutta-16; Grams: "AGFAPHOTO". **Branch Manager :** B. F. Doshee. 34, Mount Road, Madras-2; Grams: "AGFA-PHOTO". **Branch Manager :** C. A. Padmanabhan.

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Ahmed & Co., 69, Lohar Street, Bombay 2.

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Ajit India Private Ltd., 408, Himalaya House, Palton Road, Bombay 1. Manufacturers of aluminium architectural building products—doors—windows—north-light glazings—partitions—shop fronts false ceilings—louvred windows—sunscreens curtain walling in technical collaboration with Williams & Williams Ltd., U.K.; and suppliers of sheet, plate and wired glass and also insulation boards for these products. Phones: 266518 & 266519; Grams: "ALUZGLAZE".

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Telegraphic Address : 'ASHDOWN'.

Phone Nos. : 372584-86 (Works) and 251321-26 (Office), P.O. Box 816.

Branch : Ramasar Works, Bhavnagar.

Phone No. : 3415.

Telegraphic Address : 'ALCOCKS'.

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Alibhoy Kadibhoy Kachwalla, Sheet and Plate Glass Merchant. 84, Abdul Rehman Street, Bombay 3.

All-India Electric Co., Electrical Merchants. 76-78, Dwarkadas Bldg., Mangaldas Road, Bombay 2.

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Phone :
251761

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(For details please see "Travel Agents").

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Office :

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G.P.O. Box No. 1977.

Telephone : 314224.

Telegraphic Address : "PENBALL."

Factory :

Chinchwad, Poona 19, Maharashtra.

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Chimanlal Shah & Co., 3-D, Mangaldas Road, Mangaldas Market, Bombay 2.

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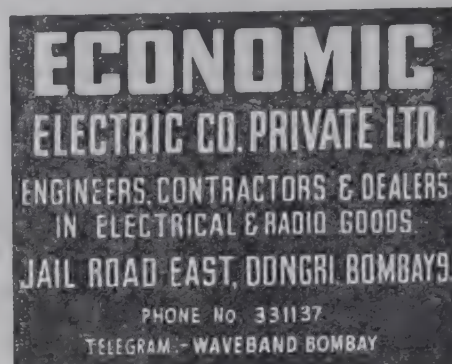
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GODAVARI SUGAR MILLS, LTD., THE., Fazalbhoy Building, Mahatma Gandhi Road, Fort, Bombay-1. Phone No.: 257321.

GODREJ & BOYCE MFG. CO. PRIVATE LTD., Security Equipment, Steel Furniture for Office and Home, Typewriter, Refrigerator, Machine Tools, Fork-Lift Trucks, Steel Windows, Tubing, Steel Composing Room Equipment, Locks, Steel, Castings, *Head Office & Works:* Lalbaug, Bombay-12. Phone: 379911. *Works:* Vikhroli, Bombay-79. Phone: 582621.

GODREJ SOAPS PRIVATE LTD., Toilet, Washing & Shaving Soaps, Toiletries, Fractionated Fatty Acids and Industrial Chemicals. *Head Office & Chemical Factories:* Eastern Express Highway, Vikhroli, Bombay 79. Phone: 582385. *Soaps Factory:* 316, Delisle Road, Bombay 11. Phone: 373494.

GOKAK MILLS LIMITED, THE., *Business:* Manufacturers of Yarn and Cotton Tyre Cord.

Directors: F. H. Kemple, Esq. (*Ex-Officio*), *Chairman;* T. V. Baddeley, Esq., C.B.E.; Bhagwandas C. Mehta, Esq.; Pratap Bhogilal, Esq.; R. F. S. Talyarkhan, Esq.; Balkrishna Harivallabhdas, Esq.; G. Khandwala, Esq. (*Ex-Officio*).

Managing Agents: Forbes Forbes Campbell & Co. Ltd. *Registered Office:* Forbes Building, Home Street, Fort, Bombay 1.

Bombay Office Telephone: 268081 (10 lines). *Bombay Office Telegraphic Address:* "YESTERMORN".

Telex: TLX 369, Answer Back Steamer By.
Mills at: Gokak Falls, Belgaum Dist., Mysore State.
Mills Telegraphic Address: "TURBINES" Gokak Falls.
Mills Telephone No.: 4 (Gokak).
Mills General Manager: Mr. R. Murray.

GOLDFILLED MERCANTILE CO., Premier Manufacturers of Simulated Pearls, Pearl Necklaces, Glass Beads and Costume Jewellery, 13/15, Bastion Road, Fort, Bombay. Phone Nos. 261768 and 265528 (Office) and 571679 (Factory). Grams: "GOLDFILLER."

Golden Chemicals Private Ltd., 'Tobacco House', Vile Parle, Bombay-56. Manufacturers of Bichromates, Chromates, Glauber's Salt Calcined, Chromic Acid,

Basic Chromium Sulphate and Chrome Oxide Green. Phone: 572032. Grams: "GOLDCHEM".

GOLDENSUN MANUFACTURING CO.,

Distillers & Manufacturers of:—Aromatic Chemicals, Highly Concentrated Fruit & Flower Essences, Essential Oils & Perfumed Compounds etc.

Sales Office: Mulchand Mansion, Princess Street, Bombay 2.
Phone: 310093.

Office: 64C, Girgaum Road, Bombay 2.
Phone: 353058.

Golden Dyes Corporation (India) Private Ltd., Mfrs. of Dyes & Chemicals. Factory at Joshi Wadi, Near Rivoli, Bombay 19. Office: Bela Court No. 2, Colaba, Bombay 5.

Goodlass Nerolac Paints Pvt. Limited, Forbes Building, Home Street, Fort, Bombay 1.

GOPALJEE & CO., Importers of Camphor, Menthol, Asafoetida, Chemicals and General Merchants, 218, Samuel Street, Vadgadi, Bombay 3. Phones: Office: 323421, 324206 & Factory 370717. Res.: 473346. Grams: "HINGMAKER".

Gore & Co., Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay. *Exporters:* Piecegoods and Yarns. *Importers:* Synthetic Yarns, Polyester Fibre, Wool Tops, Fibre Tops, Piecegoods & Fertilisers. Phone: 265541. Grams: "GORMILLA".

Grahams Trading Co. (India) Ltd., 16, Bank Street, Fort, Bombay 1.

GRANT ADVERTISING INTERNATIONAL INC.

Advertising Agents & Consultants

Chief Divisional Manager: Mr. S. Chatterji.
Bombay Office: Lotus House, Marine Lines, Bombay 1.

Telephone No. 291222 (4 lines).
Telegram Address: "GRANTCHI"

Branches at: Calcutta, Madras & New Delhi.
(37 Branches all over the World)

GRAUER & WEIL (INDIA) LIMITED.

Sukh Sagar, Sandhurst Bridge, Bombay 7.
Phone: 359581-2.

Manufacturers of complete Plants for Degreasing, Anodizing, Electro-plating, Hard Chrome Plating, Phosphating, Barrel Plating, etc. and Chemical Cleaners, Electroplating, Anodising, Basic Chemicals Metal & Plant Strippers, Plating on aluminium & Plastic, Colouring & Oxidising.

GREAVES COTTON & COMPANY LTD.

Registered & Head Office: I, Forbes Street, P.O. Box No. 91, Bombay I. Phone : 25-9771. Grams : GREAVES. Telex : 517.

Board of Directors :

Chairman :

L. M. Thapar.

Managing Director :

N. M. Wagle.

H. D. Varma.

Surendr Lall.

M. F. C. Elliott.

I. M. Thapar.

A. K. Datta.

General Sales Manager :

M. B. Bhaskare.

General Export Manager, Resident Director and Company's Agent, Chinchwad Manufacturing Units : **R. D. Pusalkar.**

EXPORT DIVISION :

I, Forbes Street, Bombay I. Phone : 25-9771. Grams : GREAVES. Telex : 517.

AVIATION DIVISION :

"Nittoon", 2 Palace Road, Bangalore. Phones : 23873 & 26773. Grams : GREAVES. Manager : **A. R. Hindley.**

RUSTON PAXMAN SALES DIVISION :

Akurdi Village, Chinchwad, Poona 19. Phone : 8231. Grams : GREAVES. Telex : 224. Sales Manager : **T. P. Hajela.**

OFFICES

WESTERN REGIONAL OFFICE :

I, Forbes Street, P.O. Box No. 91, Bombay I. Phone : 25-9771. Grams : GREAVES. Telex : 517. Regional Manager : **M. B. Baskare.**

Branches :

Bombay : I, Forbes Street, P.O. Box No. 91. Phone : 25-9771. Grams : GREAVES. Telex : 517. Manager : **M. R. Natu.**

Ahmedabad : Mumtaz Mahal, Relief Road. Phones : 22280 & 24634. Grams : GREAVES. Manager : **P. N. Kotwall.**

Goa : Rua Caetano Lourenco Monteiro, Margao. Grams : GREAVES. Manager : **A. Mascarenhas.**

EASTERN REGIONAL OFFICE :

16, Hare Street, Calcutta I. Phone : 237236. Grams : GREAVES. Telex : 568. Regional Manager : **A. K. Datta.**

Branches :

Calcutta : 16, Hare Street, Calcutta I. Phone : 237236. Grams : GREAVES. Telex : 568.

Asansol : G. T. Road (West). Phone : 2935. Grams : GREAVES. Manager : **Y. K. Chib.**

Bhubaneswar : Unit III. Phone : 891. Grams : GREAVES. Manager : **R. Pani.**

Gauhati : Bharalumukh, Assam Trunk Road, Phone : 4802. Grams : GREAVES.

Patna : Bank Road, Phone : 23762. Grams : GREAVES. Manager : **M. L. Khatri.**

NORTHERN REGIONAL OFFICE :

"Thapar House", 124, Janpath, New Delhi. Phone : 42281. Grams : GREAVES. Telex : 508. Regional Manager : **G. Mathrani.**

Branches :

New Delhi : "Thapar House", 124, Janpath. Phone : 42281. Grams : GREAVES. Telex : 508. Manager : **R. Bajekal.**

Kanpur : "Thapar House", Birhana Road. Phone : 34203. Grams : GREAVES. Telex : 237. Manager : **S. V. Mani.**

Jaipur : Mirza Ismail Road. Phone : 75883. Grams : GREAVES. Manager : **S. K. Saksena.**

SOUTHERN REGIONAL OFFICE :

19, Second Line Beach, Madras. Phone : 21215. Grams : GREAVES. Telex : 503. Regional Manager : **V. Venkataraman.**

Branches :

Madras : 19, Second Line Beach. Phone : 21215. Grams : GREAVES. Telex : 503. Manager : **V. Venkataraman.**
Bangalore : Aruna Mansions, 78/1 Jayachamarajendra Road. Phone : 72640. Grams : GREAVESITY. Bangalore, Bangalore City. Manager : **N. G. Ghorpade.**

Coimbatore : India House, Trichy Road. Phones : 22302 & 23617. Grams : GREAVES. Manager : **U. Bhas-karao.**

Hyderabad : Shakar Bhavan, Fateh Maidan Road. Phone : 33813. Grams : GREAVES. Manager : **R. K. Chintamani.**

U. K. OFFICES :

London : 95 Aldwych, London W.C. 2. Phone : Chancery 3333. Grams : Care CROMPARK.

Manchester : James Greaves & Co. Brazennose House (East Door), Brazennose Street. Phone : Blackfriars 0991. Grams : GREAVES. Manager : **A. H. Smith.**

MANUFACTURING DIVISIONS

Diamond Bit Manufacturing Division

Regd. Office: I, Forbes Street, Bombay I. Phone : 25-9771. Grams : GREAVES. Telex : 517.

Works: Industry Manor, Prabhadevi P.O., Bombay 25 D.D. Phone : 452583. Grams : GREAVES. Works Manager : **N. R. Shetty.**

Manufacturers of Greavestool diamond drill bits, dressers & truers.

Cone Plant

Regd. Office: I, Forbes Street, Bombay I. Phone : 25-9771. Grams : GREAVES. Telex : 517.

Works: 91, Sayani Road, Dadar, Bombay 28. Phone : 451674. Grams : GREAVES. Manager : **S. Padmanabhan.**

Manufacturers of Paper cones, tubes and pins for the textile industry.

Greaves Mindrill Manufacturing Division

Regd. Office: I, Forbes Street, Bombay I. Phone : 25-9771. Grams : GREAVES. Telex : 517.

Works: 16, Hare Street, Calcutta I. Works Manager : **P. S. Akolkar.**

Manufacturers of drilling machines, pumpsets and ancillary drilling equipment.

ASSOCIATE COMPANIES

Crompton Greaves Ltd.

Regd. Office: I, Forbes Street, Bombay I. Phone : 256263. Grams : CROMGRE. Managing Director : **P. R. Deshpande.**

Works: (1) Kanjur, Bhandup (E), Bombay 78. Phone : 582451. Grams : CROMGRE. Works Manager : **S. G. Padhye.**

(2) Dr. E. Moses Road, Bombay 18. Phone: 373361. Grams: CROMGRE. Works Director: **K. Worthington**. Works Manager: **S. K. Mohile**. Manufacturers of electrical switchgear, motors, table & ceilings fans, lighting equipment, etc.

Greaves Foseco Ltd.

Regd. Office: 1, Forbes Street, Bombay 1. Phone: 25-9771. Grams: FOSECOIND. Telex: 517. General Manager: **P. J. Garner**.

Works: (1) Akurdi Village, Chinchwad, Poona 19. Phone: 28235. Grams: FOSECOIND. Telex: 224. Production Works Manager: **G. V. Hiranandani**.

(2) Opp. Brace Bridge Rly. Station, Taratalla Road, Calcutta 53. Grams: FOSECOIND. Works Manager: **S. K. Neogi**.

Manufacturers of chemical and metallurgical compounds used by steel works, foundries and industries processing metal.

Mather Greaves Ltd.

Regd. Office: 1, Forbes Street, Bombay 1. Phone: 25-9771. Grams: GREAVES. Telex: 517.

Works: Akurdi Village, Chinchwad, Poona 19. Phone: 8237. Telex: 224. General Manager: **P. Isherwood**.

Manufacturers of calendar bowls, Stenter clips, a complete range of finishing, bleaching and printing machines, centrifugal pumps for the textile industry.

Greaves Dronsfield Ltd.

Regd. Office: 1, Forbes Street, Bombay 1. Phone: 25-9771. Grams: GREAVES. Telex: 517.

Works: 91, Sayani Road, Dadar, Bombay 28. Phone: 451674. Works Incharge: **A. B. J. Pereira**.

Manufacturers of Atlas brand emery fillets for the textile industry.

SUBSIDIARY COMPANIES

Ruston & Hornsby (India) Ltd.

Regd. Office: 1, Forbes Street, Bombay 1. Phone: 25-9771. Grams: RUSTONIND. Telex: 517.

Works: Akurdi Village, Chinchwad, Poona 19. Phone: 8231. Grams: RUSTONIND. Telex: 224. Deputy General Manager: **R. Dayal**.

Manufacturers of Ruston horizontal, vertical, marine water and aircooled diesel engines.

David Brown Greaves Ltd.

Regd. Office: 1, Forbes Street, Bombay 1. Phone: 25-9771. Grams: DABGREAVES. Telex: 517.

Works: Akurdi Village, Chinchwad, Poona 19. Phone: 8236. Grams: DABGREAVES. Telex: 224. Works Manager: **D. Mascarenhas**.

Manufacturers of Radicon worm and worm reduction gear units, marine gearboxes, power takeoff units, etc.

Drayton Greaves Ltd.

Regd. Office: 1, Forbes Street, Bombay 1. Phone: 25-9771. Telex: 517.

Works: Industry Manor, Prabhadevi P.O., Bombay 25. D.D. Phone: 452583. Works Manager: **M. R. Menon**.

Manufacturers of a complete range of steam traps, strainers, sight glasses, rotary pressure joints, pressure switches, temporary & permanent filters.

TRADING ACTIVITIES

AIR CONDITIONING & REFRIGERATION

Distributors for Northern and Eastern Regions: ACCEL air conditioning, refrigeration, ventilation and dust extraction equipment. Also undertake design and execution of complete air conditioning, refrigeration, ventilation jobs on turnkey basis.

CONSTRUCTION EQUIPMENT

Road Construction & Earthmoving Equipment

Distributors for :

Aveling-Jessop road rollers; ' Bhagson ' stone crushers.

Mining & Drilling Equipment

Distributors for :

Greavestool diamond drill bits, dressers and truers; Greaves Mindrill drills, operating equipment, high pressure water/mud circulating pumps and grout pumps.

ENGINES

Distributors for :

Complete range of **Ruston** horizontal, vertical and marine water and aircooled diesel engines, altertor sets, pumps; **Villiers** petrol/kerosene 4-stroke engines for industrial applications, with pumpsets for agricultural applications.

INDUSTRIAL EQUIPMENT

Boilers & Thermal Equipment

Distributors for :

Drayton-Armstrong steam traps, strainers, sight glasses, rotary pressure joints, pressure switches; Stream-Line transformer & insulating oil filters.

Gear, Transmission Units, etc.

Distributors for :

David Brown Greaves Radicon worm reduction gear units forward & reverse gearboxes for marine and industrial applications, power take-off units; Kopp mechanical-type infinitely variable speed gear units.

Material Handling Equipment

Distributors for :

TAK-Fellows E.O.T. cranes, ' Electralift ' wire rope-type electric hoists, ' Atom ' electric chainblock and pulleys, ' Goliath ' cranes, Martonair air hoists, belt conveyors.

FOUNDRY SERVICES

Distributors for :

Greaves Foseco chemical & metallurgical compounds, fluxes, etc. for treatment and processing of metals in steel works, foundries, etc.

TEXTILE MACHINERY & MILLSTORES

Distributors for :

Greaves paper cones, tubes, pirns; Atlas brand emery fillets; Mather Greaves calendar bowls, Stenter clips, finishing, bleaching printing machines, centrifugal pumps, etc.

Foreign Representations

Greaves are Sole Concessionaires in India for manufacturers of repute in England, U.S.A., Australia and Europe. The line covers: Aviation, Boiler & Thermal Equipment, Brickmaking Machinery, Cranes & Hoists, Diesel Engines, Drilling & Boring Equipment, Dumpers, Excavators, Earthmoving and Road Construction Equipment, Foundry Material & Equipment, Furnaces, Lubricating Oils & Greases, Gas Turbines, Gears, Industrial Presses, Machinery (Textile), Metals & Alloys, Mill & Gin Stores Suppliers, Mining Machinery, Oil Purifying Equipment, Oil Well Equipment, Pumps & Pumping Machinery, Steam Traps, Valves & Measuring Instruments, Steel Manufacturers, Survey Instruments, Trailers, Truck Trailers, Winches & Haulages. For details of products and manufacturers represented see under Classified List of Overseas Firms with Names of Bombay Agents/Representatives.

GUEST, KEEN, WILLIAMS, LIMITED

Head Office :

'Jeevan Deep',

1, Middleton Street,

Calcutta-16.

Telegram : 'POINTSMAN', Calcutta.

Works :

AT—97, Andul Road,

Howrah,

West Bengal.

AT — Lal Bahadur Shastri Marg,

Bhandup,

Bombay-78.

AT — Rajajinagar,

Bangalore-10.

Main products manufactured by the four Operating Divisions :

Sankey Precision Pressings Division

Electrical steel stampings and laminations and precision mild steel pressings.

Steel Division

Bright bar, alloy, spring, high quality carbon, free cutting and other special steels.

Fasteners Division

Bolts and nuts (Mild Steel and High Tensile), rivets, spikes, wood screws, machine screws, self tapping screws, cotter pins, tinmen's rivets, tubular and semi-tubular rivets and other industrial fasteners and safety pins.

Engineering and Forgings Division

Carbon, alloy and other special steel forgings.

GREAVES FOSECO LIMITED

Regd. Office : 1, Forbes Street, Bombay 1

(Tel. 259771)

Board of Directors:

N. M. Wagle.			
M. F. C. Elliot.			
R. D. Pusalkar.			
M. B. Bhaskare.			
E. Weiss	(resident in U.K.)		
D. V. Atterton	"	"	"
R. C. Edmonds	"	"	"
G. E. Cobby	"	"	"

Head Office:

- (i) P. J. Garner—General Manager.
- (ii) S. M. Deshmukh—Group Purchase Controller.

Manufacturing Units:

- (i) Greaves Foseco Limited,
Bombay-Poona Road, Chinchvad, Poona-19.
G. V. Hiranandani—Production Works Manager.
- (ii) Greaves Foseco Limited,
Taratalla Road, Opp. Brace Bridge Rly. Station,
Calcutta-53.
S. J. Singh—Deputy General Manager.
S. K. Neogi—Works Manager.

GUEST, KEEN, WILLIAMS, LIMITED ; SANKEY PRECISION PRESSINGS DIVISION.

Regd. Office : Jeevan Deep, 1, Middleton Street, Calcutta 16.

Manufacturers of Precision Stampings, Laminations, Chokes, and Wound Toroidal Cores for the Electrical Industry and Light Pressings for the Electrical, Automobile and Textile Industries.

Calcutta Commercial Office : Jeevan Deep, 1, Middleton Street, Calcutta 16. Phone : 442381 (11 lines).

Calcutta Works : Currie Road, Shalimar, P.O. Howrah. Phone : 672026.

Bangalore Office & Works : Rajaji Nagar, Bangalore 10. Phones : 3591 and 3282.

Delhi Office : Jeevan Vihar, Parliament Street, New Delhi. Phones : 48136 and 47018.

Delhi Retail Centre : 3/13B, Asafali Road, New Delhi. Phone : 274721.

Bombay Office & Works : Agra Road, Bhandup, Bombay 78. Phones : 581451/2/3/4/5

Bombay Retail Centre : 658, Kailas Nagar, Tardeo, Bombay 7. Phones : 370754.

General Managing Director : Phone : Calcutta Office : 442381. Bombay Office : 581248 and 581451. Bombay Residence : 361869.

Managing Director : Phone : Calcutta Office : 442381. Bombay Office : 581248 and 581451.

Tel. Address : 'LOWLOSS'. Bombay, Calcutta, Bangalore, Delhi.

Great India Net Industry, Mfrs. of all kinds of wire netting. 10, Bruce Street, Bombay 1. Phone : 257206. Grams : "CRIMPNET".

GREAT WESTERN STORES (Proprietors: F. D. Mehta & Co.), Wine & Provision Merchants and Cold Storage Specialists. Standard Building, Dr. Dadabhai Naoroji Road, Fort, Bombay-1. Phone No. 254047.

Greentose Private Ltd., 24, Dalal Street, Fort, Bombay 1.

GUJARAT INDUSTRIAL TRUCKS LIMITED, Manufacturers of Materials Handling Equipment viz. Hydraulic Pallet Trucks, Lifting Trucks, Stackers, Industrial Trucks & Trolleys, Wheels, Castors etc. India House, Fort Street, (Opp. G.P.O.), Bombay-1.

GUJARAT TRADING SYNDICATE

Manufacturers of Printers' Accessories, Suppliers of Materials Handling Equipment.

India House, Fort Street, Bombay-1.

Grams: "GUTRASYS".

Phone: 261248.

GUJARATI TYPE FOUNDRY, Gaiwadi, Girgaum, Bombay 4. Phone No. 354332. Tel. Address: "Gutyfo", Bombay.

GULF OIL (INDIA) PRIVATE LIMITED, Registered Office: Steelcrete House, 3, Dinsha Wacha Road, Bombay 1. P.O. Box No. 1943. Importers and Distributors of Petroleum Products. Area Offices: Ahmedabad, Hyderabad and Indore. *Director & Manager*: R. R. Mistri; *Asstt. Manager*: K. J. Lawyer; *Assistants*: J. D. Sassoon, H. Jaffrey, S. M. Bhiwandkar, A. V. Balasubrahmanian, B. N. Shroff and A. G. Gupte. Tel. Add.: 'Gulfindia' Phone No. 295131 (3 lines).

Gupta Cycle Company, Importers of Cycles & Accessories. Bharucha Buildings, 172, S. Gandhi Marg, Bombay 2.

Gunvantray & Co., Crescent Chambers, Tamarind Lane, Fort, Bombay.

H. P. Modi & Co., 177, Nagdevi Street, Bombay 3.

H. S. SOBHA SINGH & SONS, Importers and Indentors of Machinery and Equipment as follows: Eccentric Presses, Hydraulic Presses, Multiple Die Presses, Press Brakes, Plate Shears, Nibbling Shears, Combined Shearing and Punching Machines, Plastic Processing Machines, Sheet Metal Machinery, All types of Workshop Machinery, Wire Net Weaving Looms, Rubber Processing Machines, Continuous Cable Vulcanising Plants, Machinery for Cable Industry, Drum Manufacturing Plants, Tin Can Manufacturing Plants, Transmission Drive Elements, Clutches for Heavy Machinery, Hydraulic Pumps and Valves, Turbines.

Office: Nagin Mahal, 82, Veer Nariman Road, Bombay 1. Phone: 292774, 292759 and 292220. Grams: 'DALJIT', Bombay.

Branch Offices: B-6, Asaf Ali Road, New Delhi, Phone: 273756. Bank of India Bldg., Kemp Gowda Road, Bangalore. Phone: 24740.

Haldyn Industries Private Ltd., 344, Savarkar Marg, Bombay 28.

Hallen, L. J., & Co., 275, S. Gandhi Marg, Bombay 2.

Hamilton Studio Private Ltd., Indu House, Dougall Road, Ballard Estate, Fort, Bombay 1.

HARDCASTLE & WAUD MANUFACTURING CO., PRIVATE LTD., (Incorporating Mermaid Paints Private Ltd.), Manufacturers of Heat Treatment Chemicals in India in collaboration with E. F. Houghton & Co., Philadelphia, P.A., U.S.A., (Pioneer Manufacturers of Heat Treatment Chemicals). Cutting Coolants, Foundry Products, Synthetic Resins, Colloidal Graphite HAWCO CG 3. Fibre Sheets, Industrial Laminates, Fabric Bearings for Steel Rolling Mills, Gaskets, Silent Gears, Wire & Bristle Brushes, "Kleanwell" Brand Circular and industrial Wire brushes, Flexible Shaft machines and accessories. Paints for all purposes, Printing Inks, Varnishes, etc. Alice Buildings, 339, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 299292. Grams: "WAUDCO." Factory — Kalyan (Central Rly.), Phone: Kalyan 26.

HARDCASTLE, WAUD & CO. PRIVATE LTD., Sole Selling Agents for:—(1) Harcastle & Waud Mfg. Co. Pvt. Ltd., Mfrs. of Heat Treatment Chemicals, Paints, Enamels, Varnishes, Distempers, Synthetic Resins, Insulating Varnishes, Colloidal Graphite HAWCO CG 3 Wire & Bristle Brushes, Gears & Gaskets of all types, Jointing compounds, Jointings & Packagings, Acid & Alkali Resisting Cements, Corrugated Rings, Fibre sheets, Industrial Laminates, Fabric bearings for Steel Rolling Mills, "Kleanwell" Brand Circular Wire Brushes & Flexible Shaft Machines and accessories, etc. (2) Waterproof Paper Mfg. Co. Pvt. Ltd., Mfrs. of all kinds of Waterproof packing papers. (3) H. W. Wharton & Co. Pvt. Ltd., Mfrs. of Silica Gel, Iron Cement, Toilet Papers, Adding Machine Coils, Importers of Non-Fluid Oils & Greases Welding Rods, etc. (4) Amar Minerals Pvt. Ltd., Asbestos & Asbestos Products, all kinds of Minerals. (5) D.C.M. Products (1937) Pvt. Ltd., Mfrs. of Brinella Casting Powder, Greases, Refractories etc.

Surveyors, Clearing Agents, Importers of Engineering and Mill Stores, Heat Treatment Products, Electrical Indicating Recording and Controlling Equipment, Low Temp. Welding Rods, Vulcanized fibre, Insulating Materials and Laminated Plastic for Silent Gears, Acheson's Colloidal Graphite Products, Lubricants, Industrial Chemicals, Synthetic Resins etc. *Head Office*: Alice Building, 339 Dr. Dadabhai Naoroji Road. P. B. No. 1254, Bombay 1. Tel. Address: "WAUDCO", Phone No. 299292 (5 lines). *Factory*: Kalyan. *Branches*: Calcutta, Madras, Ahmedabad, Baroda. Codes Used: Bentley's A.B.C. 5th and 6th Edns. and Western Union.

Harilal Manilal & Co., 346, Kalbadevi Road, Bombay-2 BR.

HARISCHANDRA & CO., JALIWALA

Perforated Metals, Sheets, Expanded Metal & Wire Nettings Manufacturers & Suppliers. 233, Abdul Rehman Street, Bombay 3.

Phone Nos. 322907 & 323161.

Grams: "HARIJALI".

Harishanker Narbheram & Co., D.M., 94, Kansara Chawl, Kalbadevi Road, Bombay 2.

HARSHADRAY PRIVATE LIMITED, Merchants, Engineers & Agents. *Head Office*: Jiji House, Raveline Street, Bombay 1. Phone: 266281 (4 lines). Grams: "FACTORIND". *Factory*: Stainless Steel Division, Pandit Jawaharlal Nehru Road, Santa Cruz, Bombay 54. Phone: 532432.

Hassamlal Bros.—538, Kalbadevi Road, Bombay 2.

HATIM BROTHERS, Manufacturing Opticians & Importers of various kinds of Spectacle Lenses and different kinds of frames, Rolled Gold & Zylo, 302, Abdul Rehman Street, Bombay 3. Phone No. 324960. Tel. Address: "OPTICIANS."

Hatimbhoy Gulamhusein & Bros., 193-A, Nagdevi Street, Bombay 3.

Hazarat & Co., Warden House, Sir P. Mehta Road, Fort, Bombay 1.

HEATLY & GRESHAM, LTD., Engineers and Railway Specialists, London, Calcutta, Bombay, Madras, New Delhi, Ahmedabad. *Bombay Office*: 43, Forbes Street, Fort, Bombay 1. Post Box 225. Telephones: Office: 255756 & 255865. Telex: 011-2724. Telegraphic Address: "BRAKE."

Managing Director: A. D. Dhingra, B.Sc., Hons. (Edin.), A.M. Inst. C.E., A.I. Loco. E. Mr. N. Kumar, General Manager (Stationed in Calcutta). Mr. M. D. Mehra, Finance Manager (Stationed in Calcutta).

Area Manager: Bombay: M. M. Bharucha, B.E., A.M.I.E. *Assistants*: L. C. P. D'Sa, V. S. Kulkarni and M. M. Karve.

Sole Agents for: Steel Shuttering, Scaffolding, Vibrators, Windows for Transport Vehicles, Welded Mesh, Concrete Floor Hardener & Waterproofing, Flooring for Coaches & Wagons, Concrete Batching Plants, Drill Chucks, Stone Crushers, Portable Swivelling Loaders, Hot Mix Plants, Vibrating Screens, Agricultural Pumps, Machine Tools, Industrial Furnaces, etc., etc.

Manufacturers of: Complete range of "Gresham" Industrial Oil Burning Equipment, including Burners, Blowers, Pre-heaters, Filters, Valves, etc., also Floor Springs, and Boiler Feed Injectors.

Hemant Tools Trading Co., 33, Bibijan Street, Bombay 3.

HEPTOOLA NOORUDIN & CO. (Estd. 1900), Importers & Dealers in Marine & Mill Stores, 154, Nagdevi Street, Bombay 3. Phone: 326787. Grams: "IMMUNITY". Merchants & Shipchandlers.

HERBERTSONS LTD., *Regd. Office*: Ewart House, Bruce Street, Fort, Bombay-1 (BR). *Branches at*: Calcutta, Delhi, Secunderabad (A.P.), Lucknow, Jabalpur, Patna and Gauhati. Manufacturers of Dipy's Brand of Processed Vegetable & Fruit Products, Distributors of Wines, Spirits, Provisions and Chemicals & Drugs, Manufacturers' Agents, Exporters and Importers.

Directors: A. L. Cole, A. K. Pal and W. G. Tyson.

General Manager: V. A. Castellino; *General Sales Manager*: S. S. Gandhi; *Sales Manager (O. I. & C.)*: K. Bala Ram; *Sales Manager (Consumer Products)*: K. C. Kapur; *Branch Managers*: D. B. Sethi (Calcutta), S. S. Bajaj (Delhi); *Depot Managers*: J. S. Kohli (Lucknow), V. G. Nimbhorkar (Jabalpur), N. Sengupta (Secunderabad) and V. K. Luthra (Patna).

Tel. Address: "HERBERTSON", Bombay.

Tel. No. 258061. *Post Box No.* 431.

Associated Company: Herbertsons (Pakistan) Ltd., Karachi & Chittagong.

HIGGINS (EASTERN) PRIVATE LTD., H. F. Manufacturers of "HFH" Automobile Parts "HFH" Wall and Pencil Type, Pressure Gauges, Importers & Distributors of Auto Parts and Garage Equipment. Janmabhoomi Chambers, opp. Alexandra Dock, Fort Street, Bombay-1. Phone: 261789. P.O. Box 1548. Grams: "HEASTERN"

Hill, Son & Dinshaw Private Ltd., Stevedores & Marine Contractors.

Managing Directors: Dinshaw A. Dhunjibhoy, and Menos Dinshaw.

Marshall's Building, Ballard Road, Fort, Bombay. Phone Nos. (Head Office): 26-2281, 26-2282 and 266105; Sholapur Street (Godown): 333133; Darukhana (Godown): 378975. Grams: "HATCHWAY", Bombay.

HIMALAYA DRUG CO., Pharmaceutical Manufacturers. 251, Dr. Dadabhai Naoroji Road, Bombay 1. Phone Nos. 262222 and 262223. Grams: "SERPINA"

Hind Cycles, Ltd., Pioneer Manufacturers of Bicycles and Accessories, etc., 250, Worli, Bombay 18.

Hind Equipment Corporation Pvt. Ltd., 24-B, Hamam Street, Fort, Bombay 1.

Hind Export Corporation, Currimjee Building, 111 Mahatma Gandhi Road, Fort, Bombay 1. Phone: 250741, Tel. Address: "HIGHLAND". Exporters of all kinds of Oilseeds, Oils, Oil Cakes, Spices, Grains, Handicrafts, Engineering and Electrical Goods, Raw Cotton & Textile Piecegoods.

HIND RECTIFIERS LTD.

Licensees of: Westinghouse Brake & Signal Co. Ltd., London for manufacture of Rectifiers, Battery Chargers, Electro Plating Sets, Silicon Power Plants.

Selling Agents: Kaycee Industries Ltd., Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1.

Phone: 263521, 22, 23.

Office: Lake Road, Bhandup, Bombay 78.

Telephone Nos.: 592432 & 592433

Telegraphic Address: "HIRECT"
Bombay 78.

HIND TANK MANUFACTURING CO.

Structural Engineers & Contractors

Specialists in: Plant & Machinery Designing & Fabrication & Storage Tanks.

Address: Trimbak Parsaram Street, Bombay 4.

Telephone: 331845, 333214.

Grams: "INDUSPLANT"

"Hindu, The," Office and National Press, Kasturi Buildings, Jamshedji Tata Road, Bombay 1.

Hindustan Brown Boveri Ltd., Brown Boveri House, Dr. A. Besant Road, Bombay-25.

HINDUSTAN LEVER LIMITED, Manufacturers and Sellers of Soap, Glycerine, Detergents, Nickel Catalyst, Refined oil, Toilet preparations, Vanaspati, Ghee, Margarine, Skim Milk Powder, Baby Food, Dehydrated Foods and animal feeding stuffs.

Head Office : Hindustan Lever House, Backbay Reclamation, Bombay 1. P. O. Box No. 409. Phone No. 296400. Tele. Address : "HINDLEVER". *Factories* : Bombay, Calcutta, Shamnagar, Ghaziabad, Tiruchirapalli, Etah.

Branches : Delhi, Calcutta, Bombay & Madras.

HINDUSTAN EXPORT & IMPORT CORPORATION PVT. LTD.

Registered Office :

Anand Bhavan, Dr. Dadabhoy Naoroji Road, Bombay 1. Post Box No. 1091. Phone : 253885 (3 lines).

Grams : "Hindexport". Bombay : Telex : 2748 Bombay, India.

Answer Back Code HEI 0112748.

Branch Offices :

Grover Mansions, 3/17, Asaf Ali Road, New Delhi. (Phone : 272967) Grams : "HINDEXPORT" New Delhi.

Suite No. 2, 7 Circus Avenue, Calcutta 17.

(Phone : 448005). Grams : "HINDEXPORT". Calcutta.

Resident Engineers : 74, Victoria Road Layout, 1st floor, Bangalore 17.

Post Box No. 2902, Mylapore, Madras 4.

Resident Representative : At Hyderabad, Poona, Jabalpur and Kanpur.

Managing Director : Kanwal K. Grover.

Importers and Sole Agents of many reputed manufacturers of Machine Tools in Western Europe, U.S.A., Japan, Australia and for HMT-Pegard horizontal boring & milling machines. Exporters of Grey and Processed Cotton Yarn and Textiles.

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A Member of the Turner & Newall, Group.

Registered Office & Factory :

Bombay-Agra Road, Ghatkopar, Bombay 77 AS. Tel. No. : 581491 (9 lines). Grams : "FERODOSTAN".

Sales Offices :

Calcutta, Madras & New Delhi.

Manufacturers of "FERODO" brake and clutch linings, "Firefly" asbestos textiles, Compressed Asbestos Fibre Jointings, Asbestos Millboard, "Limpet" Asbestos Sheets and Ferobestos.

Hindustan Liver Ltd., Backbay Reclamation, Bombay 1. Hindustan Scale Co., 186, Janjekar Street, Bombay 3.

HINDUSTAN STEEL CORPORATION, Importers and Indentors of Machinery & Equipment as follows : Machinery for the Cable Industry, Wire Drawing and Wire Stranding Machines, Extrusion Plants, Billet & Scrap Shears, Scrap Baling Presses, Draw Benches and

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HINDUSTAN PENCILS PRIVATE LTD.

Manufacturers of : All types of Pencils.

Office : 111/112, Himalaya House, 79, Palton Road, Bombay 1.

Telephone : 261972.

Telegram Address : "WRITESFINE".

Managing Director : Mr. B. J. Sanghvi.

Directors : Mr. P. P. Sanghvi, Mr. K. B. Sanghvi.

Hindustan Tiles & Cement Industries, Manufacturers of Tiles, Mosaic, Sythlic Marbles, Terrazo, Art & Coloured. *Bombay Office* : 89, Princess Street, Bombay-2. Phone : 313951. Telegram : "MARMOSAIC". *Head Office* : Jamnagar, Gujarat. Phones : 269 & 427. Grams : "TILES".

HINDUSTAN TOOLS & HARDWARE MART

Importers & Stockists of :—

Engineering Stores, Tools & Hardware.

Office : 126, Lohar Chawl, Bombay 2.

Phone : 310666.

Grams : "FAKIRSAI".

HINDUSTAN TRANSMISSION PRODUCTS

(Prop. : Madhusudan Ltd.)

Manufacturers of : Winding Wires, Cotton & Paper Covered Wires, Paper Covered Copper Strips, Wooden & Plastic Bobbins, Enamelling & Wiredrawing Machines, Copper Salts, Insulating Varnishes etc.

Office : Chandivali, Kurla Vihar Road, Bombay 72.

Grams : "COILWIRES", Kurla, Bombay.

Telephone Nos. : 581364/65.

Regd. Office : 198, J. Tata Road, Bombay 1.

HINDUSTAN WIRE PRODUCTS LIMITED

Manufacturers of Copper and Aluminium Winding Wires.

Regd. Office & Factory : Factory Area, Patiala 2.

Phone : 600. Gram : "HINDWIRE".

Calcutta : 14, Netaji Subhas Rd., Calcutta 1.

Phone : 225194. Gram : "WELSUGAR".

Bombay : Sardagriha, Lokmanya Tilak Marg, Bombay 2.

Phone : 316741. Gram : "HINWIREPRO".

Delhi : 1774, Vishnu Bhavan, Bhagirath Palace, Chandni-chowk, Delhi 6.

Phone : 275519. Gram : "GOLDENWIRE".

HINDUSTAN WIRE NETTING CO., PRIVATE LTD., Manufacturers of Wire Gauze, Hexagon Wire Netting, Galvanized Chain Link Fencing, Galvanized

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Hirji Ladha & Co., *Dealers in all kinds of Tyres & Tubes. Specialists in Retreading of Tyres. Address*: Amir House, 245/249, Lamington Road, Bombay 7 (W.B.). *Phone*: 379144. *Grams*: "DHARANICO". *Branch at*: Vishnu Bhuvan, 4631, Relief Road, Ahmedabad 1. *Phone*: 23793. *Grams*: "TYREHOUSE".

Hiro Music House, *Dealers in Musical Records & Radios*. 23/C, Sir P. Mehta Road, Bombay-1. *Phones*: 257062 & 253690.

Hiro Photo Cine Stores, *Photographic Goods Dealers*, 23/C, Phirozshah Mehta Road, Bombay-1. *Phones*: 253690 & 257062.

Hoechst Dyes & Chemicals Ltd., Parekh Mahal, Vir Nariman Road, Churchgate, Bombay 1.

Hoare Miller & Co. Ltd., "Readymoney Terrace", Dr. Annie Besant Road, Worli, Bombay 18.

HOECHST PHARMACEUTICALS LTD., *Head Office*: Dugal House, Backbay Reclamation, Bombay. *Phones*: 296191, 296135, 296088 & 296049. *Factory*: Bombay-Agra Road, Mulund. *Phones*: 593758-59. *Grams*: "HEXTFAM". *Branches*: Ahmedabad, Bombay, Calcutta, Delhi, Madras, Kathmandu (Nepal).

Hoosein, M. A., & Bros., *Agents and Importers of Iron & Steel and their products, Non-Ferrous Metals, Building Materials, Papers, Chemicals, Exporters of Indian Cotton Piece-goods, Yarns and all sorts of merchandise*. Lakshmi Building, Sir Phirozshah Mehta Road, Fort. *Tel. Nos.* 26-2166/67. *Tel. Add.*: "Tropicals." *Branch*: Calcutta.

Hooseini Metal Rolling Mill Pvt. Ltd., Atlas Mill Compound, Reay Road, Bombay-10.

HOOSEINBHOY A. LALLJEE SONS & COMPANY

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Importers of:

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Exporters of:

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Hormasji Ardeshir & Co., 22-D, S. A. Brelvi Road, Fort, Bombay 1.

IBCON PRIVATE LIMITED, *Industrial and Business Consultants, Registered Office*: Adelphi House, 119, Maharshi Karve Rd., Bombay-20. *Phone*: 291133. *Grams*: "IBCO".

Offices:

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Managing Director: B. J. Kirpalani.

Directors: J. B. Vasandani, M. C. Mitter, D. K. Basu.

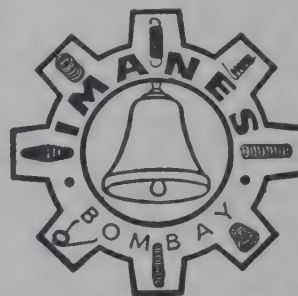
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Ideal Motors, *Distributors of Jawa Motor Cycles, Cycles and Spare Parts. Service Dept.* Bombay Mutual Annexe, Cawasji Patel Street, Fort. *Phone*: 262660 and *Head Office*: Sitaram Building, Dr. Dadabhoy Naoroji Road, Bombay 1. *Phone*: 263485. *Grams*: "IDEALMOTOR."



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Telegraphic Address : "IMPKEMIX", Calcutta.
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Head Office for Dyes :

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Phone : 268051 (14 lines).
Technical Service Laboratory (Dyes).
Fosbery Road, Sewri, Bombay.
Phone No. 373691.

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Madras—P.O. Box. 130. Phone : 29351. Telegraphic Address : "ALKALI".
Delhi—P.O. Box 107, New Delhi. Phone : 43154.
Telegraphic Address : "IMPKEMIX", Delhi.

Imperial Surgical Co. Private Ltd., "India House", Opp. G.P.O., Fort, Bombay 1.

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Directors : H. Holck-Larsen, S. K. Toubro, N. M. Desai, John Hover, Gunnar Hansen, G. A. Advani, B. I. Bhambhani.

Selling Agents : Larsen & Toubro Limited, P.O. Box 278, Bombay 1. Phone : 268181. Grams : "LAR-SENBRO." Telex : TLX 2246.

INDIA LABORATORY PRODUCTS CO.

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Starch, Klin, Syn, & Lin.

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Telephones : 253080, 372766.

India Rubber Products, Kasturchand Mills Estate, Dadar, Bombay-28.

India Tube Mills & Metal Industries Private Ltd., Structural Engineers and Tank Fabricators, Manufacturers of Bright Bars and Agents in India for Grane's Valves & Fittings. Office : 126, Narayan Dhuru Street, Bombay 3. Factory : Agra Road, Opp. Powai Lake Road, Vikroli, P.O. Tagore Nagar, Bombay 83. Telegrams : "TUBE-MILL". Telephones : Office : 322142, Factory : 581541 & 581542. Directors : O. P. Aggarwal, C. M. Aggarwal, D. C. Aggarwal, D. K. Aggarwal.

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Address : P. O. Box No. 148, 34 Chowringhee, Calcutta-16. Telegram : KEMEXIND, Calcutta. Telephone : 23-2391 (15 lines). Auto-Telex Number : Roundel Ca 620.

BRANCHES

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Address : P.O. Box 2596, 18 Strand Road, Calcutta-1. Telegram : IMKEMIND, Calcutta. Telephone : 22-2361.

Bombay :

Address : P.O. Box 287, Crescent House, 19, Wittet Road, Bombay-1. Telegram : KEMEXBOM, Bombay. Telephone : 26-8051. Auto-Telex Number : 011-663 ICI Dyes Bombay.

Madras :

Address : P.O. Box No. 2034, 378, Netaji Subhas Road, Madras-1. Telegram : KEMEXIND, Madras. Telephone : 29351. Auto-Telex Number : Alkali MS 041231.

Delhi :

Address : Hamilton House, Connaught Place, New Delhi. Telegram : KEMEXIND, New Delhi. Telephone : 43154. Auto-Telex Number : Kemix Del 031456.

India Cable Company Limited, The, Esplanade House, Waudby Road, Bombay-1.

INDIAN DYESTUFF INDUSTRIES LIMITED

Manufacturers of "Navinon Vat Dyes", and Intermediates. Mafatlal House, Backbay Reclamation, Bombay 20. Phone : 291199. Grams : "NAVICET". Factory at : Shahad, near Kalyan (Thana Dist.).

Managing Agents : Messrs. Mafatlal Gagalbhai & Sons.

Indian Commercial Co., Private Ltd., 7, Jamshedji Tata Road, Bombay 1.

INDIAN ALUMINIUM COMPANY LIMITED

Bombay Office : Engineering Centre, 4th Floor, 9, Mathew Road, Bombay 4.

Telephone : 355233. Telegram : "INDALUMIN".

Head Office : 1, Middleton Street, Calcutta 16.

Branches : Bangalore, Bombay, Calcutta and Delhi.

Products : Alumina Hydrate, Calcined Alumina; Aluminium Ingots; Sheets, Strips, Coils, Circles, Slugs, Corrugated Sheet, Chequered Plate, Extruded Sections, Frameless Houses, Grain Bins; Aluminium paste and powder, Carbon paste, Aluminium Foil.

Indian Electric Stores, Maskati Mahal, Lohar Chawl, Bombay 2.



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INDIAN HOTELS CO., LTD., Bombay House, 24 Bruce Street, Fort, Bombay 1. Taj Mahal Hotel.

Directors :—

J. R. D. Tata (*Chairman*).

N. H. Tata.

J. D. Choksi.

J. J. Bhabha.

R. D. Choksi.

Mrs. R. Sawhny.

P. M. Agarwala.

N. A. Palkhivala.

A. B. Billimoria.

Secretaries & Treasurers : Tata Industries Private Ltd.

Director-in-Charge : R. D. Choksi.

General Manager : A. B. Kerkar.

Tel. Address : "INHOTELS."

Phone Nos. : 297755 (40 lines).

Telex : 2442.

THE INDIAN HUME PIPE CO. LTD., are the largest manufacturers in India of R.C.C. Pipes known as "Hume Pipes", allied products, Prestressed concrete pipes, Hume Steel Pipes, Steel Pipes and Steel Penstocks for Hydro Electric Projects, No-Joint cast in place concrete pipes, R.C.C. Poles, Prestressed concrete poles, Welding flux, Welding electrodes etc.

The Company has acquired patent rights for No-Joint Pipes cast in Situ and can undertake laying of No-Joint Pipes.

Hume Pipes are very extensively used for Water Supply, Sewage, Drainage, Irrigation, Culverts, Well sinking etc. Concrete half-rounds and one-third round channels, R.C.C. Septic tanks, Telephone cabins, dust bins, Cattle troughs, Fencing posts, Housing for Latrines, Policeman Cabins, Pillars are the allied products made out of Hume Pipes. For High Pressure Mains required for water supply, the Company manufactures steel pipes, lined and outcoated with concrete, popularly known as "Hume Steel Pipes". The Company also manufactures Steel Pipes for Gas mains, Tunnelling etc. and Prestressed Concrete Pipes by Roca Process, for water supply schemes designed to stand pressure of 6 kg./cm² and above. These are found economical.

During the World War II, the Company pioneered manufacture of Welded Steel Pipes—Penstock pipes—for Hydro Electric Projects. Penstocks manufactured by the Company have been used in such important Projects as the Papanasam Hydro Electric Schemes, Madras, Mahatma Gandhi Hydro Electric Projects, Mysore, The Moyar Hydro Electric Scheme, Madras, Rihand Hydro Electric Projects, U.P., Koyana Hydro Electric Project (Maharashtra State) and 1st & 2nd Stage of Sharavathi Valley Hydro Electric Project (Mysore State) which the Company have recently executed successfully. Company's Penstock factory at Hadapsar (Poona) is fully equipped with the latest machinery to cater the increasing needs of Penstocks for coming Hydro Electric Projects in the country.

Prestressed Concrete Poles for Transmission lines manufactured by the Company have very advantageously replaced the Steel Tubular Poles for both High tension and Low tension lines. Also R.C.C. Poles manufactured by the Company are largely used as Lamp Posts in all the cities.

To complete any Storm Water or Sewerage Scheme with standard precast pipes, a very long period is required as it involves manufacture of pipes, curing and laying. No-Joint Pipes are machine cast in Situ in ready trenches and this speeds up the work considerably with saving in time and money.

The Company has a large network of about 60 factories spread over India and Ceylon and one factory at Benghazi in Libya with its Registered Office at Construction House, Ballard Estate, Walchand Hirachand Marg, Bombay-1. Telephone No. 268091 (13 Lines). Tel. Address : "HUMEPIPE", Bombay, Telex No. 2780.

Indian Industrial Engineers, 43, Tamarind Street, Fort, Bombay 1.

INDIAN IRON & STEEL CO., LTD., Esplanade House, Waudby Road, Post Box 922, Bombay 1 BR. Phone : 26-6115. Gram : "INISCOBOM". Branch Manager : Col. G. C. Dubey. Managing Agents : Martin Burn Ltd. Registered Office : 12, Mission Row, Calcutta 1.

INDIAN OXYGEN LIMITED

GHATKOPAR

(LAL BAHADUR SHASTRI MARG),
BOMBAY-77 AS

Manufacturers of :—

Industrial Oxygen (Compressed and Liquid), Medical Oxygen, High Flying Oxygen, Industrial and Marine Dissolved Acetylene, Industrial and Dry Compressed Air, Industrial (Compressed and Liquid) Nitrogen and Dry Nitrogen, Argon, Hydrogen, Nitrous Oxide, Electric Arc Welding Electrodes, Automatic Arc Welding Consumables, Oxy-Acetylene Welding Fluxes, Oxy-Acetylene Welding and Cutting Equipment and Accessories, Gas Anesthetic, Analgesic Apparatus and Oxygen Therapy Equipment and Liquid Oxygen Explosives.

Suppliers of :—

The above mentioned items, Oxy-Acetylene Welding Rods, AGA Marine lighting equipment, Manual Arc Welding Transformers, Automatic and Semi-automatic Arc Welding Equipment, Metal Spraying Equipment and Wires, Helium, Neon and other rare gases.

Distributors of : "Burshane" for industrial uses.

Registered Office : Oxygen House, P-34, Taratala Road, Calcutta-53.

Managing Director : A. K. Sen.

Bombay Office and Works : Ghatkopar (Central Railway), P.O. Bag No. 7251. P.O. Rajawadi, Bombay 77-AS.

Telegrams : "INDOXCO," Ghatkopar.

Telex : 011-2391.

Phone Nos. : 582641 (7 lines), 582648, 582649 & 582782.

Bombay City Depot : Arched Bungalow Road, Off Reay Road, P.O. Tank Road, Bombay 33-DD.

Phone Nos. : 375311 & 375312.

Goregaon Depot : 1-A, Menon Industrial Estate, 504-E, Swami Vivekanand Road, Goregaon, Bombay 62-NB.

Phone No. : 692967.

District Manager : L. M. Pasricha.

Bombay Works :—

Production and Compression of Oxygen, Production of Dissolved Acetylene, Nitrogen and Nitrous Oxide, Argon and High Flying Oxygen.

Districts/Branches : Asansol, Calcutta, Delhi, Jamshedpur, Kanpur, Madras.

Sub-branches : Ahmedabad, Bangalore, Gauhati, Hyderabad, Visakhapatnam.

Compressing Stations : Amritsar, Gaziabad, Howrah, Kanpur, Madras, Rishra, Tiruchirapalli.

Liquid Oxygen Depots : Barsua, Bermo, Bhrukunda, Birmitrapur, Bolani, Gidi Gua, Kathara, Kiriburu, Lohardaga, Noamundi, Purnapani.

Sales Depots : Ahmedabad City, Ambattur, Bangalore City, Barauni, Baroda, Bermo, Bhavnagar, Bhurkunda, Bokaro, Cochin, Coimbatore, Cuttack, Delhi City, Gauhati, Hubli, Hyderabad City, Jaipur, Jullunder, Khardah, Kolhapur, Madurai, Nagpur, Naini, Nasik, Patna, Pimpri, Rajkot, Ranchi, Rourkela, Salem, Siliguri, Surat and Vijayawada.

Indian Link Chain Mfrs. Ltd., *Manufacturers of :* "HERCULES", "Indalloy", "Ganesh" brand electrically welded, mild, Higher Tensile & Alloy Steel Chains. *Office :* L. B. Shastri Marg, Bhandup, Bombay-78. *Telephone :* 582311/2. *Gram :* "INLINCH", Bhandup.

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Telephones : 259031, 259030 & 259039.

Managing Director & Editor : Mr. A. B. Nair.

Indmag Private Limited, 17, off Arthur Bunder Road, Colaba, Bombay 5.

IPCA Laboratories Pvt. Ltd., *Manufacturers of* Pharmaceutical & Biological Products. 95, Morland Road, Byculla, Bombay 8. *Phone :* 374280 & 374638. *Grams :* "IPCAPHARM."

Indian Rare Earths Ltd., 111, Karve Road, Bombay-1.

Indian Plastics Limited, Poisar Bridge, Bombay 67.

THE INDIAN SMELTING & REFINING COMPANY LIMITED

Mg. Agents : Birla Bombay Pvt. Ltd.

Regd. Office : Bhandup, Bombay-78 NB.

Non-Ferrous Unit : Bombay-Agra Road, Bhandup, Bombay-78.

Cable : 'LUCKY' BHANDUP.

Phone : 582421

Ferrous Unit :

Pokhran Road, Thana, Maharashtra.

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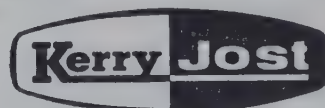
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Keshavlal Talakchand Private Ltd., India House, opp. G.P.O., Bombay 1.

Khanna & Co., S., Mustafa Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Kharas Bros., Merchants, No. 14, Hamam Street, Fort, Bombay 1.

Khatau Makanji Spg. & Wvg., Co., Ltd., Laxmi Bldg., Ballard Road, Bombay 1.

Khaimandas Jagumal & Sons, Estd. 1910 (Sind). Engineers, Machinery Merchants, 12, Gunbow Street, Fort, Bombay 1. Phone No. 26-1691. Grams: "EXPOCORP." Branch Office: Belan Gunj, Agra (U.P.).

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KIKABHOY CHANDABHOY, Paper & Straw-board Merchants. P.B. No. 2131, 33-35, Mangaldas Road, Bombay 2. Phone No. 314046. Tel. Address: "Creamlaid."

KILACHAND DEVCHAND & CO. PRIVATE LTD., 7, Jamshedji Tata Road, Churchgate Reclamation, Bombay-1. Phone: 244410. Grams: "SEEDS". Importers and Exporters of Raw Cotton; Oils, Oilseeds & Oilcakes; Cotton, Piecegoods and Chemicals. Selling Agents: Synthetics Rubber.

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Finance & Accounts: P. J. Kapadia, B. N. Vakil, S. K. Shah.

General Department: S. S. Gangoli.

Calcutta Office: (D-2, Gillander House, 8, Netaji Subhas Road, Calcutta 1)—N. G. Takle, P. D. Bhattacharya. Phone: 229146.

Delhi Office: (10-A, Gobind Mansion, Connaught Circus, New Delhi)—S. M. Bilgrami, J. S. Anand, R. K. Kapur. Phones: 40308 & 40521.

Madras Office: (Agurchand Mansion, 35, Mount Road, Madras 2)—T. V. M. Lingam. Phones: 83785 & 86330.

Ahmedabad Office: (Amit Chambers, Mirzapur Road, Lal Darwaja, Ahmedabad)—R. R. Nevrekar. Phone: 20952.

Bangalore Office: (33, Ulsoor Road, Bangalore 1)—D. R. Suri. Phone: 24108.

Poona Office: (8, Elphinstone Road)—S. D. Bhise. Phone: 25915.

Goa Office: (Mormugao Harbour, Goa). Phone: 244.

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Agencies: Gulf Oil (India) Private Ltd.; Hope's Metal Windows (India) Ltd., Calcutta; Killick Slotted Angles Ltd.; Killick Caribonum Ltd.; Masonite Corporation, Chicago; Snowcem India Ltd., Bombay; Haraldware and Domestic Appliances.

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Own Manufacture: Concrete Vibrators—Immersion, Screed, Platform and Table types; Prestressing Jacks, Pumps and accessories; Industrial Heat Treatment Furnaces—electric and fuel fired; Drilling Equipment; Killick Concrete Mixers and Tower Hoists.

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B. L. Arukia, Secretary.

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Works and Stores: Saki Vihar Road, P.O. Box 8901, Bombay 72 AS. Phone: 581401 (Powai West Works).

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Phone : 235658.

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Latif House, Iron Market, Bombay 9.

Phone : 321265.

Grams : "NICERODS".

MAZAGON DOCK LIMITED

Shipbuilders, Shiprepairers & Engineers

Mazagon, BOMBAY 10 DD.

Telephones: 379511-15, 372566-69, Telex: 2568.

Cables: "MAZDOCK."

Goa Shipyard Ltd.,

Vasco-da-Gama, Goa.

(Subsidiary of Mazagon Dock Ltd.)

Telephone: Office: VASCO 59

Yard: VASCO 127 (24 Hrs.)

Managing Director:

Rear-Admiral B. A. Samson, I.N. (Retd.).

Dry Docks	Extreme Length (m)	Maximum width of vessel for docking (m)	Depth of water at S.M. H.W. (m)
'Ritchie'	150.88	18.59	5.49
'Mogul'	129.84	16.76	4.88
'Mazagon'	46.94	10.06	2.74

Building berths:

The Company has 6 building berths. (Two berths, capacity vessels up to 145 m. long and 24 m. broad; two open berths, capacity vessels upto 70.10 m. long; and two covered berths, capacity vessels up to 50.29 m. long). A 40-ton and two 15-ton level luffing cranes have been provided alongside the two 145 m. long building berths. An optical tower for marking plates, a shot-blasting machine, a plano shear, heavy 600-ton and 350-ton presses, etc., have been installed in the Company's new Platers and Assembly Shops.

Shipbuilding:

Craft up to 145 m. in length or 15,000 tons dw. like destroyers and frigates, passenger ships, cargo ships, dredgers, tugs, barges, trawlers, launches, floating cranes, floating docks, special purpose pontoons and assault boats. (Company has entered into collaboration with I.H.C. Holland for building dredgers).

Shiprepair:

All types of hull and engine repairs carried out to sea-going ships, both steam and diesel. Survey, testing, repair and recertification of marine inflatable liferafts by trained personnel undertaken.

Kasara Basin: The Company has converted the shallow tidal Kasara Basin into an impounded wet dock capable of accommodating 3 to 4 medium size ships for fitting out or repair.

SPECIALISED WORK

Cranes:

Manufacture of port, dock, shipbuilding and floating cranes in collaboration with Kampnagel (Subsidiary of DEMAG) of West Germany.

MAZDOCK Oil Engines:

Company manufactures 6 H.P. Vertical diesel oil engines.

Engineering:

Manufacture of pressure vessels, precision machining, annealing, radiograph quality welding, overhauling of steam, diesel and petrol engines, ferrous and non-ferrous castings and rewinding of motors and generators undertaken.

MCKENZIES LIMITED, Sewri, Bombay, Engineers, Contractors, Bridge Engineers, RCC and Road Specialists, Railway Carriage and Wagon Builders, Body Builders, Trailers, Vibrators and Floor Cranes.

Managing Director :—Purshotamlal R. Jhunhunwala.

Secretary :—A. S. Ghatpande.

Chief Accountant :—S. R. Patil.

Chief Executive : Shriram Chokhani.

Chief Engineer (Civil) : B. V. Apte.

Dy. Chief Engineer (Civil) : C. M. Shah.

Factory Manager : Geo. De-Frescheville.

Commercial Manager : S. Srinivasan.

File Foundations—Vibro Concrete Piling System.

Tel. Address :—{ "Sawmills", Bombay.
"Structures", Madras.

Codes—A.B.C. 5th Ed., Western Union (5 letter), Acme and Bentley's.

Phone Nos. 441862-63; 441284 & 442050.

Mehta Engineering Works, B-40 Wagle Industrial Estate, Thana.

MEHTA NANAVATI & CO., 96, Narayan Dhuru Street, Bombay 3. Phone: 324645, Grams: "REDJOINT".

Menlee & Company, 176/182, Yusuf Meheralli Road, Post Box No. 3172, Bombay 3-BR.

Menora Hosiery Works Pvt. Ltd., 75, Nehru Road, Bombay 57.

Menty, S. M., & Co., 13, Horniman Circle, Fort, Bombay 1.

Merchants Bros., Mill Gin Stores, Brushes and Fire-fighting Equipments Dealers, 151, Nagdevi Street, Bombay 3. (See under "Rubber Goods Mfrs.")

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Factory : 103, Government Industrial Estate, Kandivlee West, Bombay-67. Phone: 693418.
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Delhi: 3-B, Jangpura, Mathura Road, New Delhi.

Madras: Room No. 2, 1st floor, 52-A, Ponnappa Mudali Street, Purasawalkam Market Gate, Madras-7.

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Office Manager:—R. Mahadev.

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Shri T. V. Baddeley.

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Shri Rasiklal J. Chinai.

General Manager: Shri R. K. Framjee.

General Manager (Technical): Dr. M. D. Parekh.

Executive (Administration): Shri R. N. Wallia.

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Chief Executive: Shri C. G. Mahant.

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Madras : Burmah-Shell House, Esplanade, Post Box No. 1774, Madras. Telephone : 27305 ; Grams : "SALESNOCIL."

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Ranipet Factory manufactures Superphosphate, Sulphuric, Nitric and Hydrochloric Acids, Epsom Salt and formulates Insecticides and Fungicides.

Tadepalle Factory formulates Insecticides and Fungicides.

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The Company owns a Compound Fertiliser Factory at Ennore near Madras, constructed at a cost of £3,000,000 producing 50,000 tonnes of Ammonium Phosphate 16:20 which is marketed under the trade name of PARAMFOS. As a part of the manufacturing process the Factory includes plants for the production of Synthetic Ammonia, Sulphuric Acid and Phosphoric Acid. This Factory is expanded to produce 38,600 tonnes of Ammonium Sulphate also.

E.I.D.-Parry Ltd., Madras, the International Minerals & Chemical Corporation, Skokie, Illinois and the Chevron Chemical Company, San Francisco, California, U.S.A. are the promoters of the Coromandel Fertilisers Limited, Secunderabad, which was established in April 1964.

The Coromandel Fertilisers Ltd., has an authorised Share Capital of Rs. 8,50,00,000 and has been licensed to commence at Visakhapatnam, a new Industrial Undertaking for the production of Complex Fertilisers and Urea with a capacity to 3,65,000 tonnes per year in terms of 20:20:0 and 16,500 tonnes per year of prilled Urea. The Company has organized a Seeding Programme and is progressively distributing large quantities of the same product which Government of India have imported for creating the necessary demand before the Factory's production reaches the market in 1967.

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Parry Murray Engines Limited (Incorporated in England), Airwork House, 35, Piccadilly, London W.1.

Parrys Packaging and Forwarding Ltd. (Incorporated in England), Airwork House, 35, Piccadilly, London W.1. Andhra Fertilisers Private Ltd., Dare House, Parry's Corner, Madras-1. Manufacturers of Superphosphate. Factory at Tadepalle, Andhra Pradesh.

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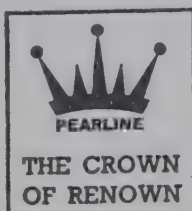
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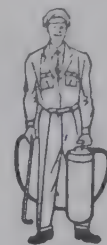
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Coimbatore: 177, Jail Road, Post Box No. 1387, Coimbatore-18. Phone: 25975. Grams: "PESTCIL."

Cochin: XXIII/1298, Mahatma Gandhi Road, Post Box No. 1730, Cochin 16. Phone: 1097.

Goa: P. B. No. 40, Swami Vivekananda Road, Panjim, Goa.

Guntur: C/o Haripra Sada Rao & Sons, Station Road, Guntur-1. Phone: 387.

Hyderabad: 6-1-1070/1, Lakdi ka Pul, Raj Bhavan Road, Hyderabad-4. Phone: 35191. Grams: "FUMIGATION."

Kakinada: Bhagavan Tanona Nivas, Malli Padavar Street, Jaganikpuram, Kakinada 2.

Lucknow: Makker's Villa, 282, Rajendra Nagar, Lucknow. Phone: 27472.

Madras: 2, Errabalu Chetty Street, Post Box No. 102, Madras-1. Phone: 24835 & 26497. Grams: "PESTCIL."

Mangalore: Azizuddin Road, Bunder, Mangalore 1. Phone: 3451.

New Delhi: F-47, N.D.S.E. Part 1, Ring Road, New Delhi-49. Phone: 621016.

Poona: Attar Building, Bombay-Poona Road, Chinchwad P.O., Poona-19.

Vijayawada: Raosons, Post Box No. 305, Vijayawada-2. Phone: 3478.

Visakhapatnam: Door No. 23-35-1, 1st Floor, Main Road, Visakhapatnam-1. Phone: 3709. Grams: "FUMIGATION".

PHALTAN SUGAR WORKS LTD., THE, Manufacturers of Sugar, Sangli Bank Bldg., 4th Floor, 296, Bazargate Street, Bombay 1. Phone: 253336-39. Grams: "RISINGSUN".

PHARMED PRIVATE LTD., Manufacturers and Distributors of Biologicals & Pharmaceuticals. 25/31, Ropewalk Lane, Fort, Bombay 1. Phones: 254244, 254260. Grams: "PHARMED". *Factory*: Sion-Trombay Road, Deonar, Chembur, Bombay 71. Phone: 521331-32-33.

PHOENIX CHEMICAL WORKS PRIVATE LTD.

Bachooabai Building, 187, Dr. Dadabhai Naoroji Road, Bombay 1.

Phone: 266409.

Grams: "WATERGLASS", Bombay.

Manufacturers of: Sodium, Potassium and Calcium Silicates, Electroplating and Fine Chemicals.

PHIPSON & CO. LTD., No. 1, Bakehouse Cross Lane, Grams: "PHIPSON," Bombay. Tel. Nos. 253996 & 253997. *Branch Manager*: P. Y. Navalkar. *Head Office*: Calcutta. Branches in India—New Delhi, Madras, Ernakulam, Visakhapatnam, Bangalore, Jorhat, Cuttack and Lucknow.

Photo-Masters, 23, Hamam Street, Bombay 1.

PFIZER LIMITED

Manufacturers and Distributors of a complete range of Pharmaceuticals, Animal Health Products, Pharmaceutical Chemicals, Agrochemicals and Nutritional Products.

Registered Office:

163, Backbay Reclamation, BOMBAY 20

(Phone: 296031—10 lines)

Offices & Depots:

Ahmedabad, Ambala, Bombay, Bangalore, Calcutta, Cochin, Cuttack, Gauhati, Indore, Jaipur, Lucknow, Madras, New Delhi, Patna, Secunderabad and Srinagar.

Plants:

1. Thana-Belapur Road, Kalwa, Thana.

(Phone: 592948).

2. Powder Works Bunder, Darukhana, BOMBAY 10

(Phones: 376141-2, 374033)

3. 178, Industrial Area, CHANDIGARH

(Phone: 5295-3 lines)

Pioneer Consolidated Company of India Ltd., Manufacturers' Representatives, Insurance, Shipping, Clearing & Forwarding Agents, Importers and Exporters. *Head*

Office: 14/64, Civil Lines, Kanpur; 11-13, Horniman Circle, Fort, Bombay 1. Phone: 317011. Grams: "PIONIND".

Pickers Ltd., 43, Tamarind Street, Bombay 1.

Pioneer Enamelling Works, 24, Laxmi Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

PIONEER MAGNESIA WORKS LTD., THE

113/115, Mahatma Gandhi Road, Bombay-1, BR.

Phone: 252843.

Grams: "MAGNESIA."

Manufacturers of:

Magnesium Chloride (ISI specifications), Calcium Chloride (technical and anhydrous), Epsom Salt and Magnesium Carbonate.

PIONEER EQUIPMENT CO., PRIVATE LTD.

the first & the foremost name for

FOUNDRY & METALLURGICAL EQUIPMENT, INSTRUMENTS, CHEMICALS, ETC.

139, Nagindas Master Road, Bombay-1; 3, Esplanade East, Calcutta-1; 36, Nizamuddin West, New Delhi-13; 3, Casa Major Road, Egmore, Madras-8; Alkapuri and Industrial Estate, Baroda.

See our detailed entries under different headings in "Classified Trades Section"

PIONEER TRADING CO., THE

Dealers in:

Light & Heavy Industrial Chemicals & Auxiliaries.

Address:

210, Samuel Street, Vadgadi, Bombay-3.

Grams: "CHEMITRADE"

Phone: 324607

Pitamber & Co., Scindia House, Dougall Road, Ballard Estate, Bombay 1.

PITAMBER LALJEE & SONS

Freight & Chartering Brokers.

House Brokers to Messrs. Bharat Line Ltd.

Address. Bharat House, 104, Apollo Street, Bombay 1.

Telephone Nos., Office: 255426 & 254230, Res.: 362050 & 355141.

Telegram Address: "SAFESHIP".

Pitamberdas Lallubhai & Co., 86, Kansara Chawl, Kalbadevi Road, Bombay 2.

Pitamberdas Mohanlal & Sons, 4, Mandlik Road, Bombay 1.



Plasticables Private Ltd., 36, Dalal Street, Bombay 1.

PLUCK & CO., (ESTD. 1902)

Office & Works : Block No. 22, 3rd Floor, Prabhadevi Industrial Estate, Cadell Road, Bombay-28.

Badges, Advertising Gifts like Key Chains, Paper Weights, Paper Cutters, Table Calendars, everything in soft plastics like Wallets, Memo Pads, Files, Diaries etc.

Grams : "INTERSEAS".

Pochee, C. S., & Son, 586, Chira Bazar, Girgaum Road, Bombay 2.

Polish Ocean Lines, 15/A, Horniman Circle, Bombay-1.

POLSON LIMITED, 65B, Dockyard Road, Mazagaon, Bombay 10 (D.D.). Branch : Calcutta. Butter & Casein. Factory : Polson Model Dairy, Anand and Patna ; Coffee Factory : Mazagaon, Bombay. Gift and Local Sales Bureau : No. 237, Frere Road, opp. G.P.O., Bombay. Grams : "POLSON", Mazagaon, Bombay.

POLYOLEFINS INDUSTRIES LIMITED

Registered Office :

Neville House, Currimbhoy Road, Ballard Estate, Bombay-1.

Telephone : 260151

Telegram Address : "PILENE"

Manufacturers of High Density Polyethylene, Processed Polyethylene Products, Aluminium Organic Compounds, Technical Knowhow and Financial collaboration agreement with FARBERWERKE HOECHST AG. of West Germany.

Factory at :

Thana-Belapur Road, Thana District, Maharashtra, India

Board of Directors

Mr. Arvind N. Mafatlal, *Chairman*.

Mr. W. C. Thomson

(Alternate : Mr. E. J. Mackay)

Mr. W. Thies

(Alternate : Dr. H. Koch.)

Mr. R. G. Saraiya

Mr. N. M. Wagle

Mr. D. Zur Loye

(Alternate: Mr. B. R. Tannan).

Mr. N. V. Vora, *Administrative Managing Director*.

Dr. Erich Sattler-Dornbacher, *Technical Mg. Director*.

Polymer Corporation, 70, Kansara Chawl, Kalbadevi Road, Bombay 2.

Poonager Bilimoria & Co., 26, Dalal Street, Bombay 1.

POONJIAJI, M. M., & CO., 42, First Marine Street, Bombay 2. Manufacturers & Exporters of "SHIP-BRAND", "GREEN LABEL" Indian Condiments, Mango Chutneys, Pickles, Madras Curry Powder and Curry Paste, Bombay Ducks, Pappadoms and Sugar Cane Vinegar. Telegraphic Address : "PRESERVE." Telephone Nos. : 312412, (Res.) 255475.

Popular Electric Stores, 11, Golpitha Corner, Bombay 4.

Popular (Imp-Exp.) Trading Co., 110, N. Master Road, Bombay 1.

Power-Gas Corporation Ltd., The. Meher Chambers, Nicol Road, Ballard Estate, Bombay-1.

Prabhat Electric Corpn., 99, Lohar Chawl, Bombay 2.

Prabhat Udyog Ltd., Noble Chambers, S. A. Brelvi Street, Fort, Bombay 1.

Prahladraj Dalmia & Sons, Podar Chambers, S. A. Brelvi Street, Bombay 1.

Pravin & Co., 85, Nagdevi Street, Bombay 3.

PRECISION GEARS PRIVATE LIMITED

Regd. Office :

Tiecicon House, Dr. E. Moses Road, Bombay-11.

Phone : 377381

Grams : "PIJIAR", Bombay-6.

Factory :

B/16 Industrial Estate, Indore (M.P.).

Phone : 4072

Grams : "PIJIAR".

Manufacturers of :

Gears (Helical, Spur & Worm), Rivets (solid, semi-tubular and tubular for Brakelinings, automobile body building, etc. from ferrous and non-ferrous metals) and Silver Contacts.

PREMIER AERATED WATERS PRIVATE LIMITED

Manufacturers of : High Class Aerated Waters & Soft Drinks.

Office & Factory : Near Nair Hospital, Lamington Road (North), Bombay 8.

Managing Director : Mr. B. D. Motairam.

Phones : Office : 374282; Res. : 378622.

Grams : "RUBERGOODS," Bombay, Mandvi.

Phone : 326551.

PREMIER RUBBER & CABLE INDUSTRIES

Jamal Building, 211, Nagdevi Street, Bombay 3.

Manufacturers of Quality Rubber Goods such as 'PREMIER' Cycle and Rickshaw Tyres and 'PREMEX' Tubes, Rubber Hose Pipes (Delivery and Suction), Petrol and Oil resisting Hose Pipes, Rubberised Texture Cloth, Rubber Beltings, Moulded and Extruded Articles.

Premier Furnishing Co., 7, Brabourne Stadium, Veer Nariman Road, Bombay 1.

Premier Glass Traders, 78, Dhanji Street, Bombay 3.

PRESSURE PILING CO. (INDIA) PRIVATE LTD.,
Patent Compressed Concrete Piles, Foundation and Cementation Specialists. *Registered Office* : Savoy Chambers, West Wing, Wallace Street, Fort, Bombay. Phone No. 26-3941 (2 lines), Post Box No. 319, Bombay 1. Tel. Address : "PRESURPILE" Bombay. *Godown* : 222, New Sewri Road, Cotton Green, Bombay 33. Phone : 375818.

Managing Director : C. V. Deshpande, B.E., M.I. Struct. E. (Lond.), F.Am. soc. C.E., C. Eng., M.I.E. (Ind.), F.R.S.H.

Directors : P. R. Tongaonkar, B.E., M.I.E. (Ind.), S. C. Deshpande, B.Sc. (Eng.) (Lond.) M. Phil. (Lond.), Mrs. Pramila Deshpande.

Press Trust of India Limited (News Agency), Petit Building, 357, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

Pundole Watch Co., 263, Dr. Dadabhoy Nowroji Road, opp. "Lloyds Bank," Fort, Bombay 1.

Punekar, N. E., & Co., New Union Bank Building, Dalal Street, Fort, Bombay 1.

PURE DRINKS PRIVATE LIMITED

Authorised Bottlers of: Coca-Cola & Fanta Orange.

Manufacturers of: SODA SPECIAL.

Address : Worli Naka, Bombay 18, W.B.

Telephone : 373585 (2 lines)

Telegraphic Address : "PUREDRINKS"

General Manager : Mr. Charles Singh.

Purshotamdas Madhavani & Co. Private Ltd., 8, Horniman Circle, Fort, Bombay 1.

Pyrotanax India Limited, 9, Wallace Street, Fort, Bombay 1. Phone : 263031. Grams : "ALPYRO".
Manufacturers of : Pyrotanax Mineral Insulated Copper or Aluminium covered Cables.

R. C. EDWARDS & CO., PRIVATE LTD.

16, Arthur Bunder Road, Colaba, Bombay 5.

Phone : 212032. Grams : "Eddicom."

Manufacturers of ARGO Taximeters Kienzle Vibracorders and other Precision Instruments.

Chairman, Board of Directors : Sardar Bahadur Bakshi Dalip Singh.

Managing Director : Major Jagtar Singh.

Chief Agents for the State of Maharashtra : Kanwal & Co. Private Ltd., 16, Arthur Bunder Road, Colaba, Bombay 5.

R. C. H. Barar & Co., Barar House, 237, Abdul Rehman Street, Bombay 3.

R. Mohanlal & Co., 38, Bibijan Street, Bombay 3.

R. S. Traders, People's Insurance Bldg., Sir Phirozshah Mehta Road, Bombay 1.

Radiant Electric & Machinery Co., Sir Vithaldas Chambers, Bruce Street, Bombay 1.

Radio Services, Girdha Bhavan, Lamington Road, Bombay 4.

RAINBOW IRON WORKS,

113, Abdul Rehman Street, Bombay-3.

Manufacturers of :

Wire Netting, Expanded Metal, Perforated Metals, Rolling Shutters, Collapsible Doors, Section Windows & Doors.

Phone : 328283

RAJ & CO.

Printing press material dealers.

40, Cowasji Patel Street, Bombay 1.

Phone : 317512.

Grams : "INKOPRINT".

For details please see in Printing Press materials.

Raj-Der-Kar & Co., Sadhana Rayon House, Dr. D. Naoroji Road, Fort, Bombay 1.

Rajasthan Cable Industries Ltd., *Manufacturers of : Rubber, P. V. C. Welding, Auto, Household, Cables.*
Address : Todi Estate, Lower Parel, Bombay-13.
Phone : 371336. Grams : "OFFER".

Raje Industrial & Engineering Combine Private Ltd., "Commonwealth Building", Churchgate Reclamation, Bombay 1.



RAJMAL PAHARCHAND ('AARPEE')

Associate Firms :

SHIV SILK MILLS
SHIV EMBROIDERY MANUFACTURING CO.
SHIV LACE MANUFACTURING CO.
ESSKAY DYEING & PRINTING WORKS

Address :

91, Shalimar, G Road, Marine Drive, Bombay 2.

Mills :

S. V. Road, Mira, Dahisar, BOMBAY 68.

Telephones : Office : 243531, 243480 & 293291.

Mills : 661102, 661593 & 662115.

Telex No. : "AARPEE BY 2784".

Grams : "NYLOCREPE", Bombay.

"RANIVOILE", Bombay.

Managing Partner :

Shri Shamsunder Khanna.

Partners :

Shri Brijmohan Khanna.

Shri Shivkumar Khanna.

Rajkamal Supplying Stores, 295, Abdul Rehman Street, Bombay 3. Phone : 321895. Direct Importers and Stockists of Paints and Dry Colours, Brushes & Artistic Materials and Manufacturers of Chromes, Lakes, Dry Colours and Poster Colour.

Partners : Shri Abdulla Enayatally Topiwala, 33, Sutar Chawl, 2nd Floor, Bombay 2. Shri Ishak Salebhai Lakhia, 28, Sutar Chawl, 4th Floor, Bombay-2.

RALLIS INDIA LIMITED*Bombay Registered Head Office :*

Ralli House, 21, Raveline Street, Fort, Bombay 1.
 P.O. Box 166. Telephone No. : 26-8221 (10 lines)
 Tel. Ad. : "RALLI.", Telex. : 2357.

Calcutta Office :

16, Hare Street, Calcutta 1.
 Phone No. 234351 (7 lines). Tel. Address : "RALLI"
 Telex : 201.

Madras Office :

Ralli House, 320, Linghi Chetty Street, Madras 1. Phone
 No. 29281 (6 lines). Tel. Ad. : "RALLI." Telex : 320.

New Delhi Office :

Marshall House, No. 1, Hanuman Road, New Delhi.
 Tel. No. 45811/13. Tel. Ad. : "RALLI", Telex : 201.

Directors : J. D. Choksi (*Chairman*), A. D. Mango (*Managing Director*), Brig. B. S. Bhagat, D. K. Ghandhi, H. J. Kahn, J. R. Mainwood, K. C. Mahindra, P. A. Narielwala, D. S. Seth, H. J. Silverston, B. R. Tannan.

Subsidiaries : Ralli Chemicals Ltd. for manufacture of Superphosphate, Ralliwolf Ltd. for manufacture of Wolf Electric Tools; Searle (India) Limited, for manufacture of Basic Chemicals and Steroids; Hemalatha Textiles Ltd. for spinning cotton yarns; W. T. Suren & Co. Ltd. for manufacture of pharmaceuticals.

Associated Companies : Boehringer-Knoll Ltd. for manufacture of Pharmaceutical Products, including Antibiotics; Protein Products of India Limited, for manufacture of gelatine and ossein; Rockwell India Limited, for manufacture of metal and woodworking machinery.

RAMCHAND MATHRADAS AGGARWAL

Agricultural Implements, Hardware, Machinery, Iron & Steel Tools, Pipe Fittings, Non-Ferrous, Representatives & Manufacturers.

Phone : 326075 & 328942
 Grams : "PIPEDIE".

Sarang Street, 30, Khokha Bazar, Bombay 3.

Ramjanally Ebrahim Currim, Investor in Industrial Joint Stock Cos. *Office :* 22, Apollo Street, opp. State Bank, Fort, Bombay. Tel. Address : "Biblock." Phone Nos. 258327 & 259927.

Ramnikal Maganlal & Co., Iron Market, Bombay 9.

RANE PVT. LIMITED

Proprietors of :

EMPIRE AUTOMOBILES

Largest Importers of Automotive Products.

New Queen's Road,
 Bombay 4.

Phone : 354275.

Grams : "AUTOWORKS".

Branches :

Kashmere Gate, Delhi.

Mahatma Gandhi Road, Secunderabad.

RICHARDSON & CRUDDAS LIMITED

(Estd. 1858)

CONSTRUCTIONAL AND MECHANICAL ENGINEERS, IRON AND BRASS FOUNDERS, SANITARY AND REFRIGERATION ENGINEERS, METALS, MACHINERY AND HARDWARE MERCHANTS.

HEAD OFFICE & WORKS : Byculla Iron Works, Post Box 4503, Byculla, Bombay 8.

BRANCH OFFICE & WORKS : First Line Beach, Post Box 1276, Madras 1.

Telegrams : "IRONWORKS", Bombay and Madras.

Telephone Numbers : 370011 (Bombay), 22401 (Madras).

HEAD OFFICE & WORKS, BOMBAY.

CHAIRMAN : R. N. Sen, F.C.A.

GENERAL MANAGER : F. J. Fonseca, B.Sc., B.E., M.I.E. (India.).

MANAGER : W. Fernandes, B.Sc., B.E., M.I.E. (India.).

Structural Engineering Dept. : Asst. Manager (Strl.); P. V. Naik, B.E., A.M.I.E.; B. R. Damania; R. D'Silva; O. D'Souza.

Mechanical Engineering Dept. : Dy. Manager (Mech.), P. Simon, L.M.E.; B. A. Ghadiali; M. D'Lima, A. C. Kuriakose.

Financial, Adviser : T. S. Kannan, I.A. & A.S.

Chief Accountant : B. J. Suntook, A.C.A.

Personnel Officer : K. P. Mahale.

Assistant Personnel and Welfare Officer : D. M. Patole.

Metals & Agencies Department : A. C. Kuriakose.

Sanitary Engineering Department : R. J. Meyers.

Works Manager : D. H. Kale.

Works : B. Oliver; K. Deva Rao, B.Sc., Met.; M. J. Bilimoria; C. A. S. Sopher; P. V. Sawai; R. D'Cruz; R. D. LaPorte.

BRANCH OFFICE & WORKS, MADRAS :

Branch Manager : F. C. Mathias, B.E. (Civil).

Assistants : M. A. Krishnamurthy, B.E. (Mech.); T. C. Sundaram, B.A., A.I.C.W.A.; H. M. Sonu Rao; T. K. Rama Rao, B.E. (Mech.); R. N. Vadivel; R. C. Ramaswamy.

RANJIT SALES & PUBLICITY PRIVATE LTD.,
111-A, Mahatma Gandhi Road, Fort, Bombay No. 1.
(Advertising Service Agents.) Telegrams: "RANJIT-SALE". Phones: 253161 & 253126. Branches: 32, Metcalfe Street, Calcutta-13. Telegrams: "RANJITAD" (c). Phone: 234253; 60/2, Janpath, New Delhi. Grams: "RANJITADV". Phone: 48876.

Rasik Publicity Company, 7, Bell Lane, Fort, Bombay 1.
Rasiklal & Company, Peerbhoy Building, 89, Princess Street, Bombay 2.

Raval & Co., Electric Cables & Wires Merchants, Shreeji Bhavan, Lohar Chawl, Bombay 2.

Ravi Marble Corporation, 31, Hamam Street, Bombay-1.

Ravi Trading Company, 5, Mohatta Market, Palton Road, Bombay 1.

READYMONEY PRIVATE LTD., C.R.H., 107, Mahatma Gandhi Road, Fort, Bombay 1. Importers, Exporters, Seed Merchants. Phone Nos. 258079 & 255348. Grams: "CRUSTREAD."

Recondo Ltd., Jeevan Sahakar, Sir P. M. Road, Bombay 1.

Reliance Trading Co., Vithal Sayana Building, Lohar Chawl, Bombay 2.

REMINGTON RAND OF INDIA LIMITED

Manufacturers of:

"REMINGTON RAND" BUSINESS EQUIPMENT

Bombay Office: Mehta Charity Trust Bldg., 15, Mathew Road, Bombay 4.

Head Office: Remington House, 3, Council House Street, Calcutta.

Phone: 237401 (10 lines)

Branches at: New Delhi, Madras, Lucknow.

Telegraphic Address: 'REMINGTONS'
all Offices.

RENOWN BISCUIT CO., THE, Biscuit Manufacturers, Connaught Road, near Victoria Gardens, Bombay 27. Tel. Address: "Rebiscuit." Phone No. 377282.

Reunion Engineering Co. Private Ltd., Amar Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

ROBERTS, McLEAN & CO., LTD., Engineers and Merchants, "Ilaco House," Sir Phirozshah Mehta Road, Fort. P.O. Box No. 452, Telegraphic Address: "ROBLEAN". Phone: 261502 & 261503. Godown: Kalachowky Road, Chinchpokli. Phone: 372805.

Managing Director: K. Tapuriah.

Regional Manager: J. S. Mansukhani.

Assistants: M. L. Daga.

Head Office: 27/B, Camac Street, 4th Floor, Calcutta-16.

Madras Office: 32-D, Greaves Road, Madras-6. Delhi

Office: 9-B, Pusa Road, New Delhi 5.

ROCHE PRODUCTS LIMITED, Manufacturers of Bulk Vitamins and Roche Pharmaceutical Specialities. Registered Office: 28, Tardeo Road, Bombay-34 WB. Post Bag No. 7901. Tel. Address: "HOFROCHE". Phones: 379921 (9 lines). Roche Pharmaceutical Laboratories: 24/26, Tardeo Road, Bombay 34 WB. Phones: 379921 (9 lines). Chemical Works: Bombay-Agra Road, Village Balkum (Dist. Thana). Phones: 593508 (2 lines). Delhi Regional Office: Roche Products Ltd., 58, Ring Road,

Lajpatnagar III, New Delhi-24. Phone: 622632. Grams: "HOFROCHE", New Delhi.

ROCKHARD FIRE ENGINEERS

Fire Protection Engineers. 25, Bank Street, Bombay 1.

Phone: 254292. Grams: "ROCKHOSE".

(For details see in Fire Fighting Equipment Mfrs. & Dealers).

Branch Office: 83/84, S. J. Park Road, Bangalore 2.

Rowe & Rowe, 381, Dr. D. Naoroji Road, Flora Fountain, Bombay 1.

HOMOEOPATHY

The Leading House in Western India for genuine and reliable Homoeopathic and Biochemic medicines, globules, bottles, corks and other Physician's requisites; Books—American, English and Indian Publications.

ROY & COMPANY

176, Princess Street, Bombay 2.

Phone: 310504.

Grams: "HOMOPATHS".

ROYAL EXCHANGE ASSURANCE (Incorporated in England with Limited Liability.) Indu House, Dougal Road, Ballard Estate, Bombay 1. Fire-Motor-Marine-Accident-Workmen's Compensation, etc. Tel. Address: "Foxhound." Phone No. 264022. Post Box 891. Branch Manager: M. M. Chakrabarty.

Royal Hardware Mart, 108, Nagdevi Street, Bombay 3.

ROYAL INSURANCE CO., LTD. (Incorporated in England; Stockholders' Liability Limited), 12, Jamshedji Tata Road, Bombay. (Fire—Loss of Profits—Motor—Accident (all classes)—Engineering—Aviation—Marine). Branch Manager: R. A. Isaac. Tel. Address: "Royal." Phone No. 296220 (5 lines). P.O. Box 1847. Head Office:—1, North John Street, Liverpool, England.

Royal Paper Stores, Importers and Stockists of Paper, Boards, etc. 187-89, Abdul Rehman Street, Bombay 3. Phone: 321103. Grams: "ROSTOPAPER".

Royal Traders, Shiv Niketan, Pinjari Street, Bombay 3.

Ruby Battery Corpn. Pvt. Ltd., 31, French Road, Bombay 7.

Ruby Coach Builders Private Ltd., 75, Dr. Annie Besant Road, Worli, Bombay-18.

R. R. Jinde & Co., 14, Mohan Nivas, Chandavarkar Road, Bombay 19.

RUPCHAND TARACHAND & CO.

Exporters, Importers & Manufacturers' Representatives for all types of Bangles, Metal Combs, Goldsmith tools, Plastic goods, Metalised articles, etc.

67-69, Bazargate Street, Fort, Bombay 1.

Phone: 261430.

Tel. Add: "MERUSHIKAR".

Ruston & Hornsby (India) Ltd.—1, Forbes Street, Bombay 1. Phone: 259171. Grams: "RUSTONIND." *Manufacturers of:* Horizontal Diesel Engines, Vertical Water-Cooled and Air-Cooled Diesel Engines, Diesel Alternator Sets' Propellers and Sterngear, Deepwell Turbine Pumps and Centrifugal Pumps. Works: Chinchwad, Poona-19. Phone: 88231. Grams: "RUSTONIND.", Chinchwad.

S. H. KELKAR & CO., PRIVATE LTD.

Manufacturers of:

Aromatic Chemicals & Perfumery Raw Material.

Office:

36, Mangaldas Road, Bombay 2.

Phone: 319130.

Factory:

Near Balrajeshwar Temple, Agra Road.

Phones: 591713 & 592498.

Managing Director:

Mr. V. G. Vage.

S. Mathuradas & Co., Stockists & Dealers in all kinds of Chemicals. *Address:* Princess Street, Bombay-2. Phone: 311273, Grams: "SMATHURCO".

S. Mehta & Co., Anees Chambers, Carnac Road, Bombay 1.

S. Ramchandra & Co., Sitaram Building, Opp. J. J. School of Art, Dr. Dadabhoy Naoroji Road, Bombay 1.

SADBHAKTI PRAKASH PRINTING PRESS PRIVATE LTD., Publishers & Fine Art Printers. Chairman & Managing Director: Laxmikant S. Dabholkar, J.P. Managerial: G. Y. Kamat, General Manager. *Head Office:*—Devkaran Nanjee Buildings, 22, Horniman Circle, Fort, Bombay.

Press:—12, Homji Street, Fort, Bombay, Phones: 252955 & 311437.

Safeglas Corporation Private Ltd., 95, Dhanji Street, Bombay 3.

Sandoz (India) Limited, Sandoz House, Dr. Annie Besant Road, Worli, Bombay 18 W.B.

Sanghavi & Sons, Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay 1.

Sanj Vartaman Printing Press & Office, Peraj Building, Apollo Street, Fort. Phone No. 38709. Newspaper/Job Printers of Repute.

Sapt Textile Products (India) Private Ltd., Sapt Building, Graham Road, Ballard Estate, Bombay. Merchants and Exporters: Cotton and Textile wastes. *Directors:* W. M. Wolf, F. Vogelsang, R. P. Bhatt. *Tel. Address:* "CASCAMI." Post Box No. 318. Phone: 262091, TELEX: TLX 590.

SARDESAI BROTHERS LTD., *Regd. & Head Office:* 82, Advent, 12-A Foreshore Road, Bombay 1. Phone: 213377. Grams: "SARCELL". *Factory at:* P. O. Sardesai Factory, Bilimora (W. Rly.). Phone: 131. Grams: "SARDESAI." *Manufacturers of quality Textile Chemicals, Lubricants, Preservatives, Detergents, Resin Finishes, Carboxy Methyl Cellulose, etc.*

Sarvodaya Reeds Manufacturing Co., 173/141, Samuel Street, Bombay-9.

SARABHAI MERCK LIMITED

Wadi Wadi, Baroda 3.

Phones: 8350, 5291

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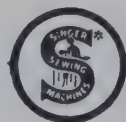
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Tambawalla Products Agencies Private Ltd., 66, Narayan Dhuru Street, Bombay 3.

Tambe Pt. Ltd., B., Vegetarian Caterer (Props. of Tambe Health Home). *Head Office* : Sanzgiri Sadan, Girgaum Road, Bombay 4. Phone No. 351977.

Branches :

(1) Thakurdwar Corner ; (2) Hamam Street, Fort ; (C) Cona, Girgaum.

Taraporevala, D. B. Sons & Co. Private Ltd., 210, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. (BR).

Taraporvala & Co., 7, Horniman Circle, Fort, Bombay 1.

TATA ENGINEERING & LOCOMOTIVE CO., LTD., *Head Office* : Bombay House, 24, Bruce Street, Bombay 1. *Sales Office* : 148, Mahatma Gandhi Road, Bombay 1.

Works :

Jamshedpur 10, Pimpri and Chinchwad — Poona.

Directors :

J. R. D. Tata, *Chairman (Special Director)*.

S. Moolgaokar (*Vice-Chairman*).

J. Zahn.

A. Wychodil.

N. K. Suntook.

N. N. Wadia (*Tata Iron & Steel Co.'s Director*).

N. H. Tata.

G. D. Khandelwal.

N. P. Godrej.

Manufacturers of :

"Tata" Diesel-commercial vehicles, steam locomotives, steel and alloy, iron castings, special steel ingots, Tata — P & H excavators, diesel shunters, large press tools and dies, general purpose machine tools, and special purpose machines.

Subscribed Share Capital : Rs. 18,45,00,000
(£ 10,148,000 or \$ 24,600,000).
Debentures : Rs. 5,00,00,000 (£ 2,750,000 or \$ 6,667,000).
Total Annual Sales : Rs. 1,05,90,15,000.
(£ 58,252,000 or \$ 141,202,000).
No. of Employees : 24,000.

Telegraphic address :—*Head Office* : "TATALOCO";
Sales Office : "TELCOSALES".

Telephone Nos. : *Head Office* : 259131-41, 258453. *Sales Office* : 253977/78/79, 254281, 254118. Telex No. :
Tlx. H.O. PR 57.

TATA FISON INDUSTRIES LIMITED, *Regd. Office*,
Head Office and Spraying Service Section : 21, Ravelin
Street, Fort, Bombay-1.

Telephones : 262936-37-38 ; 268221 (*Spraying Service Section*). Telegraphic Address : "TATFISON", Bombay.

Regional Office :

Union Bank Building, Dalal Street, Fort, Bombay 1.

Telephones : 259054-55, 290742, 253131.

Telegraphic Address : "TATFISON", Bombay.

Directors :

J. D. Choksi (*Chairman*).
A. D. Mango (*Deputy Chairman*).
H. J. Kahn.
J. R. Mainwood (*Alternate Director to H. J. Kahn*).
D. S. Seth.
A. B. Billimoria.
N. V. Khote (*Managing Director*).

Manufacturers of :

(1) Agricultural and Household Pesticides, (2) Ethical
Pharmaceutical Products.

Distributors in India : Rallis India Limited

of Agricultural Pesticides and Ethical Pharmaceutical
products

TATA HYDRO-ELECTRIC AGENCIES LIMITED,
Bombay House, 24, Bruce Street, Fort, Bombay-1.

Directors :

J. R. D. Tata (*Chairman*).
J. D. Choksi.
N. H. Tata.
M. G. R. Aitken.
S. Moolgaokar.
R. G. Saraiya.
P. M. Agerwala (*Managing Director*).
Secretary : N. K. Desai.

Managing Agents for :

Tata Hydro-Electric Power Supply Co., Ltd.
Andhra Valley Power Supply Co., Ltd.
Tata Power Co., Ltd.

Tel. Address : "THEBAMCO." *Phone Nos.* : 259131 and
258453. *Code used* : Bentley's.

TATA INDUSTRIES PRIVATE LIMITED, Bombay
House, 24, Bruce Street, Fort, Bombay 1.

Directors :

J. R. D. Tata (*Chairman*).
N. H. Tata.
D. R. D. Tata.
P. A. Narielwala.
S. Moolgaokar.
R. D. Choksi.
N. A. Palkhivala.

B. Sh. Saklatvala.
S. K. Nanavati.
R. S. Pande.
J. J. Bhabha.
N. R. Mody.
R. F. S. Talyarkhan.
R. H. Mody.
D. S. Seth.
P. M. Agerwala.
A. B. Billimoria.
A. H. Tobaccowala.
M. A. Waud.

Secretary : N. K. Desai.

Managing Agents for :

The Tata Iron & Steel Co., Ltd.
Tata Engineering & Locomotive Co., Ltd.
Svadeshi Mills Co., Ltd.
Tata Mills Ltd.
The Tata Oil Mills Co., Ltd.
Tata Chemicals Ltd.

Secretaries & Treasurers of :

Ahmedabad Advance Mills Ltd.
Central India Spg., Wvg. & Mfg. Co. Ltd.
Indian Hotels Co., Ltd.

Corresponding Firms :

Tata Limited, 18, Grosvenor Place, London, S.W. 1.
Tel. Address : "TATALD."
Tata Incorporated 425, Park Avenue, New York,
10022, N. Y. *Tel. Address* : "TATAINC."
Tata A. G. 20, Poststrasse Zug, Switzerland. *Tel.*
Address : "TATAG" ZUG.

Codes used : Bentley's.

Telegraphic Address : "TATIND."

Phone Nos. 259131 and 258453.

TATA OIL MILLS CO., LTD. (ESTABLISHED IN 1917), *Head Office* : Bombay House, 24, Bruce Street, Fort, Bombay 1. *Mills* : Bombay, Calcutta, Tatapuram (Kerala State), Ghaziabad (U.P.) & Madras.
Tel. Address : "TATOILS." *Phone* : H. O. 259131.

Manufacturers of :

Laundry and toilet Soaps, detergents, Glycerine, oils and oil-cakes, edible oils, Industrial perfumes, eau-de-cologne, hair oils and food products.

TATA SONS PRIVATE LTD., Bombay House, 24, Bruce Street, Fort, Bombay 1.

Directors :

J. R. D. Tata (*Chairman*).
N. H. Tata.
J. D. Choksi.
D. R. D. Tata.
Sir Jehangir Ghandy.
S. Moolgaokar.
R. D. Choksi.
N. A. Palkhivala.

Secretary : N. K. Desai.

Corresponding Firms :

Tata Limited, 18, Grosvenor Place, London, S.W. 1.
Tel. Address : "TATALD."
Tata Incorporated 425, Park Avenue, New York, 10022,
N. Y. *Tel. Address* : "TATAINC."
Tata A. G. 20, Poststrasse Zug, Switzerland. *Tel. Address* :
"TATAG" Zug.

Codes used : Bentley's.

Telegraphic Address : "TATASONS." *Phone Nos.* 259131
and 258453. P. O. Box No. 186.

THE TATA IRON & STEEL COMPANY LIMITED

Managing Agents: Messrs. Tata Industries Private Limited.

Registered Office: Bombay House, 24, Bruce Street, Fort, Bombay 1.

(Telegraphic Address: "IRONCO", Phones: 259131 & 258453).

CALCUTTA OFFICE: 23-B, Netaji Subhas Road, Calcutta 1.

(Telegraphic Address: "TATAIRON". Phone: 22-2341).

JAMSHEDPUR OFFICE: (Telegraphic Address: "TATAIRON").

STEEL WORKS: Situated at Jamshedpur, Bihar.

(Rly. Stn.: Tatanagar, South Eastern Rly.).

(Telegraphic Address: "IRONCO").

HEAD SALES OFFICE: 23-B, Netaji Subhas Road, Calcutta 1.

Telegraphic Address: "IRONCO", Phone: 22-2341.

Directors:

J. R. D. Tata (Special Director), (Chairman).

J. D. Choksi (Vice-Chairman).

S. Moolgaokar (Special Director) (Vice-Chairman).

Dharamsey Mulraj Khatau.

Neville N. Wadia.

Sir Fazal Ibrahim Rahimtoola.

Arvind N. Mafatlal.

S. S. Khambata.

H. Lal (Govt. Director).

H. V. R. Iengar.

S. K. Nanavati.

Head Office: Mg. Agents' Director — J. J. Bhabha.

Principal Executive Officer: S. S. Vaze.

JAMSHEDPUR & CALCUTTA OFFICES:

Mg. Agents' Director-in-charge: S. K. Nanavati.

Mg. Agents' Resident Director (Administration): R. S. Pande.

Mg. Agents' Resident Director (Raw Materials & Sales): R. H. Mody.

General Manager: S. Chander (Jamshedpur).

Controller of Accounts: B. Krishnamoorthy (Jamshedpur).

Divisional Manager (Town Medical and Health): R. P. Billimoria (Jamshedpur).

Divisional Manager (Budgets): S. K. Raja (Jamshedpur).

Divisional Manager (Establishment): S. N. Mathur (Jamshedpur).

Divisional Manager (Raw Materials): K. Z. George (Jamshedpur).

Sales Manager: A. H. Sethna (Calcutta).

Manufacturers of:

Coke, Pig Iron, Ferro Manganese, Ingots, Blooms, Billets, Slabs, Sheet Bars, Tin Bars, Rails, Wheels, Tyres and Axles, Structural Shapes, Bars, Plates, Sheets (Black and Galvanised), Skelp, Strip, Electrical Steel Sheets, Pick-axes, Porwrahs, Beaters, Crow Bars, Hammers, Shovels, Ballast Rakes, etc. Sulphuric Acid, Coal Tar, Sulphate of Ammonia, Benzol, Benzene, Toluene, Crude Naphthalene, Spent Oil, Bottom Sludge, Solvent Naphtha.

Techno-Industrial Syndicate, Noble Chambers, S. A. Brelvi Road, Fort, Bombay 1.

Tek Trading Corporation, 139-A, Abdul Rehman Street, Bombay 3.

TEMPO INDUSTRIAL CORPORATION

Engg. Divn. of Primeco (P) Ltd.

Manufacturers of:

Scientific & Laboratory Equipment,

Regd. Office:

394, Lamington Road, Bombay-4, BR.

Phone: 358033.

Grams: "TEMPOVEN" (SZ).

TENBY INDIA (PRIVATE) LIMITED

Hamam House, Hamam Street, Bombay 1

Registered office: Pondicherry

Manufacturers of the well-known "TENBY" electrical accessories under license from the English Company.

Office Phone: 314869 & 298571

Factory Phone: 574034

Grams: "TENBYINDIA"

Bombay.

Textile Machinery Corporation Ltd., 254A, Besant Road, Bombay 25.

THACKER & CO. LTD., Booksellers, Printers, Publishers, Stationers, Subscription Agents. *Registered Office & Printing Press:* Evergreen Industrial Estate, Shakti Mill Lane, Off Dr. E. Moses Road, Mahalaxmi, Bombay-11 BC. Phones: 378204, 378205. Showroom: 18/20, Rampart Row, Fort, Bombay-1 BR. Phones: 252613, 252722, 297466.

THANA TEXTILE ROPE WORKS, "Sun Brand" Pink Ply Cotton Rope Spindle Tapes, Bandings & Endless Bands. Manufacturers and Merchants, Crescent Chambers, Tamarind Lane, Fort, Bombay 1. Grams: "ROPE-DRIVE." Tel. No. 257095. Works: Bombay-Agra Road, Thana (C. Rly.). Tel. No. 591889.

THANAWALA, B., & SONS PRIVATE LTD., Manufacturers of "National" Cotton Driving Ropes & Spindle Tapes, etc. 47, Tamarind Lane, Fort. Tel. No. 318611 and Factory Tel. No. 591440. Tel. Address: "Engineerope."

The India General Engineering Co., Private Ltd., 21, Forbes Street, 1st Floor, Bombay 1.

Therapeutics Chemical Research Corporation, 95, Morland Road, Byculla, Bombay-8.

Thompson Company Private Ltd., J. Walter, Lakshmi Building, Sir Pherozeshah Mehta Road, Bombay 1.

Thomson & Taylor Ltd., Department Store, 119, Mahatma Gandhi Road, Bombay 1.

"TIMES OF INDIA," THE (See Bennett, Coleman & Company, Ltd.).

Todi Industries Private Ltd., (Engineering Division),
Manufacturers of overhead hard operated Cranes,
Straight & Circular with or without gantry girders,
Fabricated items and Steel Windows & Doors. Address:
Todi Estate, Lower Parel, Bombay-13. Phone : 371336.
Grams : "OFFER".

TRACTOR ENGINEERS LIMITED, (Larsen &
Toubro Limited in collaboration with Caterpillar
Overseas S.A., Geneva, a wholly owned subsidiary of
Caterpillar Tractor Co., U.S.A.)

Registered Office :

L&T House, Dougall Road, Ballard Estate, Bombay 1.
Phone : 268181, Grams : "TENGELETRAK." Telex :
TLX 2246. *Factory :* Saki-Vihar Road, Powai, P.O. Box
8913, Bombay 72 AS. Phone : 581401.

Managing Agents : L. & T. (Management) Private Limited.
Manufactures replacement parts for crawler tractors.

Directors : H. Holck-Larsen, N. M. Desai, P. G. Bhagat,
M. A. Clements, F. N. Grimsley, D. R. Lammers.

Products Distributed by :

Larsen & Toubro Limited, P.O. Box 278, Bombay 1.
Tractors (India) Limited, P.O. Box 323, Calcutta. Willcox
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er, 223, Sheikh Memon Street, Bombay 2.

TRINITY ELECTRIC SYNDICATE, Electrical Engi-
neers and Contractors, Princess Street, Bombay 2 BR.
Phones : *Office* : 314201. *Res.* : 352997. Tel. Address :
"SOLENOID" Agents : Felten & Guillaume Kabel-
werke, Aktiengesellschaft, KOLNMULHEIM, West
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Cables. Distributors for Cable Corporation of India Ltd.,
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Cables. Authorised Stockists : Larsen & Toubro Ltd.
for LT/LK Motor Starters and Switchgear.

TRITON INSURANCE CO., LTD., Estd. 1850 (Incor-
porated in India), United India Life Building (3rd Floor),
Sir Phirozshah Mehta Road, Fort, P.O. Box No. 115,

Bombay 1. Phone : 251295 (2 lines). Tel. Address :
"Trident." *Resident Manager* : Vinod P. Joshi, D.B.M.,
B.A. (Hons.)

Transacts Fire, Marine, Workmen's Compensation,
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T. T. KRISHNAMACHARI & CO.,
IMPORTERS, EXPORTERS AND
MANUFACTURERS' REPRESENTATIVES

Bombay Office :

Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1.
Telephones : 242181 & 242182. Telegram : "WATSHEF".

Branches at :

P. O. Box No. 884, Calcutta.
P.O. Box No. 162, New Delhi.

Depots at :

Bangalore, Ernakulam, Vijayawada.

Head Office :

331-333, Thambuchetty Street, Post Box No. 200,
Madras 1.

TULSIDAS V. PATEL, Importers & Exporters of
Textiles, Cotton, Woollen, Silk, Artsilk, Piecegoods,
Fents, Remanents, etc. Udyog Bhavan, Wittet Road,
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Grams : "VIVIDIDEA".

TURF AERATED WATERS
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Bombay 34.

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Manufacturers of High Class Aerated Waters.

TURNER, MORRISON & CO., LTD., 16, Bank
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Directors—Calcutta : B. P. Sinha, K. N. Tapuria, Rani
Padmavati Devi, M.P., and S. B. Goenka.

Assistants, Bombay : M. V. Bhave (Holds Power of
Attorney), J. T. DeLorme (Holds Power of Attorney)
Dr. R. M. Agarwal and A. K. G. Unny.

Proprietors : The Malet Welding Works, Welding
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land.)

*Codes used.—*A.B.C. 6th Edition, Bentley's, Bentley's
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Tel. Address : "Morrison's." Phone Nos. 251321/6
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TURNER, HOARE & CO. LTD.

Manufacturers, Distributors, Engineers, Importers and Exporters

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Ballard Estate, Bombay-1.

Phone : 262711 (8 lines)

Show-room :

Commercial House, Worli Naka,
Bombay-18.

Phone : 370822

Factory :

Signal Hill Avenue, Tank Road,
Bombay-33.

Phones : 374674 & 378544

Cable : ENDEAVOUR.

Codes : ACME & BENTLEY'S.

Telex : 2282.

Offices :

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Chairman :

KESHUB MAHINDRA

Executive Director :

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Automobile Clutch Assemblies, Generating Sets, Welding Sets, Battery Chargers, Super Centrifuges, Mineral Oil Purifiers, Vegetable Oil Refining Plants, etc.

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Industrial & Marine Diesel Engines, Heavy & Light Machine Tools of all types, Tools Bits, Tool & Alloy Steel, Printing Machinery, Ball & Roller Bearings, Agricultural & Industrial Chemicals, Fertilizers, Paints, Material Handling Equipment, Fork Lift Trucks, Shovels, Garage Equipment, Tyres & Tubes, Compressor Sets, Pump Sets, Electric Motors, Distribution Boards, Switches, Starters, Batteries, Automotive Starters & Dynamos, Fluorescent Lamps, Refrigeration & Dairy Equipment, Air Conditioners, Water Meters etc.

Export & Import :

Cashew Kernels, Castor Oil, Ground nut Extraction, Non-ferrous Metals, Chemicals & Drugs, Milk Powder, Natural Essential Oils, Paper, etc.

20th Century-Fox Corp. (India), Private Ltd., Metro House, Mahatma Gandhi Road. Tel. Address : "Cent-fox." Phone No. 241221 (Two lines). Post Box No. 765.

Tyresoles Concessionaires Private Ltd., Ewart House, Bruce Street, Bombay 1.

Udyogin Metal Industries, 6, Sewree Cross Road, Bombay 15.

Unichem Laboratories, Jogeshwari, Bombay 60.

UNION CARBIDE INDIA LTD.

Manufacturers of

"Eveready" Products, Lakshmi Building,
Sir Phirozshah Mehta Road, Fort, Bombay 1.

Phones : 264521 & 264522.

Grams : "Eveready".

Unique Trading Corporation, 221, Sheriff Devji Street (Chakla), Bombay 3.

United India Engineering Co., 6, Commerce House, N. Master Road, Bombay 1.

United India Fire and General Insurance Co., Ltd., Warden House, Sir Phirozshah Mehta Road, Bombay 1.

Universal Minerals & Chemical Co., Botawala Building, Horniman Circle, Fort, Bombay 1.

Universal Trading Co., 238, Thakurdwar Road, Bombay 2.

Universal Trading Company, Mohamedi House, 79, Mohamedali Road, Bombay 3.

United Steel Companies (India) Private Limited, Registered Office : Orient House, P.O. Box 673, Mangalore Street, Ballard Estate, Bombay 1.

Upadrasta & Sons, Bennet House, Forbes Street, Fort, Bombay 1.

UTKAL MACHINERY LIMITED. (Larsen & Toubro Limited in collaboration with three West German companies—Gutehoffnungshuette Sterkrade A. G., J. M. Voith GmbH and Heinrich Koppers GmbH.)

Registered Office & Works : Kansbahal, Dist. Sundergarh, Orissa. Telephone : 2321 ; Grams : "UTMA-PLANT". For faster service telegrams and telex messages to be addressed: UTMAL KANSBAHAL TLX : 33 LARSEN BRO CALCUTTA.

Fabricates equipment for iron and steel plants, equipment for pulp and paper plants, crushing and screening machinery, mining equipment, hydraulic gates, equipment for chemical plants, special steel structures.

The Company also offers special castings and undertakes installation and servicing of plant and equipment.

Directors : Th. Mueller (Chairman), H. Holck-Larsen (Vice-Chairman), Gunnar Hansen, John Hover, Dr. H. W. Rudhart, Dr. H. Mittendorf, H. Pfeifer, Dr. C. Knapp, Dr. K. Kuepper, L. T. Gholap, B. S. Billimoria (Alternate Director), D. S. Mulla (Alternate Director), L. Wilsing (Alternate Director).

Selling Agents : Larsen & Toubro Limited, P.O. Box 278, Bombay 1. Phone : 268181, Grams : "LARSEN-BRO."

United Liner Agencies of India (Private) Limited.

Bombay Office :—Wavell House, Graham Road, Ballard Estate, Post Box No. 1281, Bombay 1.

Telephones : 266451, 266452, 266453.

Manager : W. R. Page.

Asstt Manager : N. K. Medappa.

Assistants : V. N. Wagle, V. M. Gawad.

Head Office : Mookerji House, 17 Brabourne Road, P.O. Box No. 2141, Calcutta.

Branch : Madras.

Tel. Address : "ULINERS" all offices.

Associated Companies :—

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Karachi, Chittagong and Khulna.

UNITED LINER AGENCIES OF BURMA, LTD.,
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Agents for :—The East Asiatic Co. Ltd., Copenhagen.
Swedish East Asia Co., Ltd., Gothenburg, Wilhe Imsen, Oslo.

VAKIL & SONS (PRIVATE) LTD., Narandas Building, Sprott Road, 18, Ballard Estate, Bombay 1.
Phones : 260321-22-23. Hague Building, Sprott Road, Ballard Estate, Bombay 1. **Phones** : 261993, 261221.
Grams : BLADE. Industry Manor, Chowney Gully, Worli, Bombay 25. **Phone** : 451960. **Grams** : RANGOLI.
Quality Printers, Greeting Card and Wedding Card Manufacturers.

VAPSON PRODUCTS

Manufacturers of Dyes, Textile Chemicals,
Auxiliary Products and Cosmetics.

419A, Arun Chambers, Tardeo Road,
Bombay-34.

Phone : Office : 373154.

Factory : 555654

Grams : "VARIAMINE".

Variety (Agents) Private Ltd., 15, Cawasji Patel Street,
Fort, Bombay 1.

Vartak, B. B. & Co., 182, Dr. Dadabhai Naoroji Road,
Fort, Bombay 1.

Vasant Industrial & Eng. Works, 470, Worli Road,
Bombay-18.

Vasi Shums & Co., Ltd., Vasi Building, Nagdevi Street,
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VEEJAY'S TRADING CORPN., Ahmed Building, Room No. 5, Lohar Chawl, Bombay 2. **Phone** : 319048.
Sole Agents for "MARLEX" Electric Appliances—Pressure Cookers, Musical Bells, Gas Lighters, Sirens, Hooters, Gong Bells, Portable Blowers cum Vacuum Cleaners, Vibro Tools, Soldering Irons, Transformers & Battery Mixers, Venture Exhaust Fans & Almonard Air Circulators.

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Vijay Bakelite Trading Co., 8, S. Devji Street, Bombay 3.

Vijay Engineering & Machinery Co., 9, Bombay Mutual Annexe, Sir P. M. Road, Fort, Bombay 1.

Vikram Padamsey & Co., 29, Veer Nariman Road,
Bombay 1.

Vinay Calendar Co., 104, Ardeshir Dady Street, Bombay 4.

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Grams : "VIBHACO."

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Phone : 336680. **Grams** : "ARCWELD." Manufacturers of Argon Welding Equipments, Acetylene & Oxygen Gas Generators, Metals joining equipments, Soldering and Brazing equipments, Safetywear for Industrial Workers, Gloves, Goggles, Helmets, Safety Belts, Dust Protection Respirators, Aprons, etc.

Vog & Co., Empire Bldg., D. Naoroji Road, Bombay 1.

Volkart (India) Ltd., Volkart Building, Graham Road,
Ballard Estate, Bombay 1.

VOLTAS LIMITED, 19, Graham Road, Ballard Estate, Bombay-1.

Head Office :—Bombay-1.

Phone : 268131 (20 lines), **Tel. Address** : VOLTAS.

Works :—2nd Pokhran Road, Thana. **Phone** : 59-1951.

Branches :—Bombay-33, Calcutta, New Delhi, Madras, Bangalore.

Sub-Branch :—Lucknow.

Offices :—Ahmedabad, Bhopal, Bhubaneswar, Chandigarh, Cochin, Coimbatore, Cuttack, Dhanbad, Durgapur, Gauhati, Indore, Jaipur, Jamshedpur, Kanpur, Panjim (Goa), Patna, Raipur, Ranchi, Rourkela, Secunderabad, Trivandrum, Vijayawada and Visakhapatnam.

Directors :—Messrs. R. F. S. Talyarkhan (*Chairman & Chief Executive*), J. D. Choksi, B. Reinhart, P. A. Narielwala, S. K. Handoo, P. C. Cheryan (*Executive Director—Sales & Engineering*), A. Hydari, H. B. Dhondy (*Alternate Director for B. Reinhart*).

General Management : R. F. S. Talyarkhan (*Chairman & Chief Executive*); P. C. Cheryan (*Executive Director—Sales & Engineering*); Col. T. K. Mukerji (*Retd.*) (*General Manager—Staff & Administration*); Rear Admiral Daya Shankar (*Retd.*) (*General Manager—Mfg. & Dev.*); N. V. Baxi (*Dy. General Manager Group 1*); B. Gupta (*Dy. General Manager—Group 2*); S. F. Karaka (*Dy. General Manager—Group 3*); S. A. Buhariwalla (*Dy. General Manager—Financial & Accounting Services*); T. R. Seshadri (*Dy. General Manager—Commercial & Administrative Services*); S. V. Rao (*Dy. General Manager—Liaison, New Delhi*).

Divisions : Air Conditioning & Refrigeration; Electrical; Textile Machinery; Earthmoving & Construction Equipment; Mining & Conveying Equipment; Materials Handling; Machine Tool; Agro-Industrial Products; Pharmaceuticals & Consumer Products; Chemicals; Project Engineering; Internal Operations.

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Wadia & Co., K., Opp. London Hotel, M. Shankatali Road, Bombay 7.

Walchandnagar Industries Ltd., Construction House, Ballard Estate, Bombay 1.

WALLACE & CO., Merchants, 9, Wallace Street. Partners: Wallace Brothers & Co. Ltd., Europe; The Bombay Co., Private Ltd., Bombay. Agents for: F. F. Chrestien & Co., Ltd., Commercial Union Assurance Co., Ltd. Tel. Address: "ROMFORD." Phone: No. 26-3032. Post Box No. 201.

WACO RADIO

WACO RADIO ELECTRONIC INDUSTRIES

Office: Sukhsagar Building, Hughes Road, Bombay 7. Phone: 352951. Showroom: 421, Lamington Road, Bombay 7. Phone: 352580. Factory: Ulhasnagar 4, opp. Vithalwadi, C. Rly. St., Maharashtra State. Mfrs. of Sanyo Transistor Radios, Waco Radios, Amplifiers, Intercom equipments, HI-FI-amplifiers, Ampligrams, Radiograms, Transformers, Chokes, Balasts for Fluorescent & HPMV Lamps and Wooden Radio Cabinets.

Wallace Flour Mills Co., Ltd., 9, Wallace Street, Fort, Bombay 1.

Wandleside National Conductors Ltd., Industrial Estate, Lalbaugh, Bombay 12.



WANSON (INDIA) PVT. LIMITED.

8, Katrak Road, Wadala, Bombay 31.

Phones: 441755, 442139, 442973.

Grams: "VAPORAX", Matunga, Bombay

Manufacturers of VAPORAX fully-automatic oil fired heavy duty packaged steam Boilers. Vapor-Jet Steam Cleaners/Hot Water Boilers and Thermopac (Thermic Fluid Boiler), Evaporating Capacity of Boilers: 100 kg./hr., 300 kg./hr., 600 kg./hr., 1,000 kg./hr., 1,500 kg./hr. and 2,000 kg./hr. Capacity of Vapor-Jet: 200 g.p.h. of Hot Water.

WATERPROOF PAPER MANUFACTURING CO., PRIVATE LTD., Manufacturers of all kinds of Waterproof Paper in Rolls for packing, Textile Goods, Machinery, etc. Alice Buildings, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 299292. Factory: Anjirwadi, Mazagon, Bombay 10.

West End Watch Co., 49, Mahatma Gandhi Road, Bombay 1.

WESTERN INDIA ENGINEERING CORPN. PRIVATE LTD., Manufacturers' Representatives,

Electrical Engineers and Contractors. Registered Office: 68-A, Alli Chambers, Tamarind Lane, Bombay-1.

Directors:—D. N. Purandare, Jayant L. Desai and N. N. Purandare.

Phone Nos.: 256896, 298962. Tel. Address: "WIECOL", Bombay.

WARDEN & CO. PVT. LTD.,

Quay Street, Mazagon, Bombay-10 DD.

Mfrs. of :

Security Brand Waterproof and Waxed Paper, Gummed Paper, Toilet Tissue Paper, Paper Tubes, Multi-Wall Paper Sacks, Hessian-Lined Paper/Polythene Bags, Fibre Drums and Plastic Carboys.

WARRIOR (INDIA) LIMITED

Manufacturers of :

"WARRIOR" & "TOTEM" Brand Cut Thread Taps, Dies, — Hexagonal Die nuts & Two-Piece Dies.

Office :

Forbes Bldg., Home Street, Bombay 1.

Telephone: 268081.

Telegram: "SCRUTAKUL."

Factory :

Chandivali Estate, Saki Powai Road, Bombay 70.

Phone Nos.: 581570 & 581583.

Branches :

9-10/3, Asaf Ali Road, New Delhi-1.

Phone: 273952.

6A, Middleton St., Calcutta-16.

Phone: 447870.

Raji Bldg., Mount Road, Madras-6.

Phone: 85751.

WATER SUPPLY SPECIALISTS PRIVATE LTD.,

Manufacturers of : "WASP" Pumping Sets etc. *Sole Agents for :* "MYERS" Pumps. *Head Office :* 8, Hamam Street, Fort, Bombay-1. Telephone: 252325. Telegram Address: "PUMPMEN". *Branches :* 2670-74, Ghasmandy Road, Secunderabad (A.P.). Phone: 73889. Grams: "PUMPMEN". 4E-13, Jhandewalan Extension, New Delhi 55. Phone: 567916. Grams: "MYERS-PUMP". Gujarat Mansion, Mission Row Extension, Calcutta-1. Phone: 234144. Grams: "WATERFLOW". 330, Thambu Chetty Street, Madras. Phone: 23436. Grams: "PUMPMEN".

WATUMULL INDUSTRIES PVT. LTD.

Manufacturers of :



QUALITY FOUNTAIN PENS, BALL PENS & REFILLS "Delstar", 1st Floor, 9-9/A, Hughes Road, Bombay 26 WB. Phone: 354425. Grams: "KHUBBROS".

WESTERN AGENCIES COMPANY

Sukh Sagar Building, Hughes Road, Bombay 7.

Phone : 352951.

Showroom : 421.

Lamington Road, Bombay 7.

Phone : 352580.

Grams : "WESTCOY."

Engineers, Manufacturers' Representatives for
RADIO, T.V., Electronic Components, Electronic &
Communication Equipments and Instruments.

Western India Manufacturers' Agency Private Ltd., 190,
N. Desai Road, Bombay 4.

WESTERN INDIA TANNERIES LTD., Manufacturers of every kind of Shoe upper and sole leather. Specialists in the manufacture of Textile Leathers, Chrome Picking Bands, Leather Beltings, Buffers, Washers, Roller Skins, Pickers, Laces, etc. Address : Dharavi, Bombay 17. Phones : 474251 & 474252. Telegrams : "Eastkip."

Western India Strip Mills, Agra Road, Bombay 78.

Western India Trading Co., Hague Building, Sprott Road, Ballard Estate. Stockists of all well-known Printers' requisites. Sole Agents for Coates of India Ltd., Lithographic and Printing Inks. American Type Founders Sales Corporation, World's Largest Manufacturers of types. Hunter Penrose Ltd., Marinoni Offset Machines. Tel. Address : "Sargonco." Phone No. 26-3366.

WESTINGHOUSE TRADING CO. (ASIA) LTD., "The International", 16 M. Karve Road, Bombay 20 ; Grams: "WESTASIA". Phone : 291094. 43, Ring Road, Lajpatnagar III, New Delhi 24 ; Grams: "WESTASIA". Phone : 626785 & 626636. 8 & 12, Chittaranjan Avenue, Calcutta 13 ; Grams: "WESTEAST". Phone : 234875.

New Delhi : *Vice-President & Regional Director* : Mr. J. Drobot ; *Sales Engineer* : Mr. Shyam G. Sujan.

Bombay : *Regional Representative* : Mr. G. B. Sujan.
Calcutta : *Sales Engineer* : Mr. S. Srinivasan.

WHARTON, H. W., & CO., PRIVATE LTD., Importers and Manufacturers of Lubricating Oils & Greases, Welding Rods, Toilet Papers, Adding Machine Coils, Iron, Cement, "Silica Gel" etc. Alice Building, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone : 299292.

WILLIAMS, G. & CO. PRIVATE LTD., "Advent", 8th Floor, 12-A, General J. Bhosle Road, Bombay 1. Post Box No. 1736. Phone Nos. : 213055 & 213056. Grams : "BLANWIRE".

Representing in :

The Paper, Board, Asbestos, Cement Industries and Textiles, Printing and Filtration Trades.

Porritts & Spencer, Ltd., Bury, England. Haslingden Office : Broadway, Haslingden, Rossendale, Lancashire, England. Manufacturing : Paper Machine Felts and all types of Mechanical and Filter Cloths.

The United Wire Works Ltd., Granton, Edinburgh, United Kingdom EH5 IHT. Manufacturing : Machine Wires & Covers.

W. Green Son & Waite Ltd., Invicta Works, Chalk Pit Avenue, St. Paul's Cray, Kent, England. Manufacturing : Dandy Rolls, "Electronic" Dandy Drives, Cylinder Mould Covers, Dandy Brackets and Drives, Hand Moulds, Dandy Type Table Rolls.

Vickerys Limited, 53, Norman Road, Greenwich, London S.E. 10, England. Manufacturing : Stock Cleaning System, Felt Conditioners, Doctor Blades, etc.

The Spooner Dryer & Engineering Co., Ltd., Ilkley, Yorkshire, England. Manufacturing : Paper Machine Hoods and Coating Dryers.

Asbestos Corporation Ltd., Thetford Mines, Quebec, Canada. Producing : Asbestos Fibre.

Langworthy Bros. & Co., Ltd., 12, Charlotte Street, Manchester 1, England. Manufacturing : Moleskin, Blowing Wrapper Cloths and Cotton Twill Flannel.

Dunlop Co., Ltd., P.O. Box No. 151, Cambridge Street, Manchester 1, England. Manufacturing : Offset Rubber Printers Blankets, Rubber Blankets for Controlled Compressive Shrinkage Machines (Sanforizing) and Spreading Jackets for Proofing Industries.

Bauer International Inc., Springfield, Ohio, U.S.A. Manufacturing : Continuous Digesters, Pulping Systems, Screw presses, Refiners, Centricleaners, Size Reducing units, Auxiliary Equipment, Magnetic Separators.

The Union Screenplate Company of Canada Limited, 72, Queen Street, Lennoxville, Quebec, Canada. Manufacturing : Phosphor Bronze, Brass & Copper Strainer Plates.

H. J. G. McLean Ltd., P.O. Box No. 202, Brantford, Ontario, Canada. Manufacturing : Stainless Steel Refiners & Beater Bars.

Ernest Scott & Co., Ltd., Leven, Fife, Scotland. Manufacturing : Pulping & Chemical Recovery Plants.

The Dresser Industries, Crane Hoist & Tower Division, Muskegon, Michigan 49443, U.S.A. Manufacturing : Material Handling Equipment such as Shaw Box and Load Lifter E.O.T. Cranes, Budgit Electric Hoists, Chain Blocks etc.

The Butler-Larkin Co., Inc., P.O. Box 664, Wellsville, New York (U.S.A.). Manufacturing : Oil Well Production Equipment such as Packers, Cementing Equipment, Tubing Filling and Production Tools, etc.

Schwabische Huttenwerke G.M.B.H., Postfach 40, 7923, Konigsbronn, West Germany. Manufacturing : Chilled, Iron Calender Rolls.

WILLIAMSONS (INDIA) PVT. LTD., Textile Mill Stores & Machinery, Suppliers, 10, Veer Nariman Road, Fort, Bombay. *Directors* : K. B. Parekh (*Mg. Director*) ; L. K. Parekh, A. P. Williamson, C. U. N. Swami. Phones: 252415 & 259798. Tel. Address : "BELTMAKERS." Post Box No. 1176. *Secretaries* : M/s. Gillanders Arbuthnot & Co., Ltd., Bombay and Calcutta, *Branches* : 670/22, Motilal Hirabhai Market, Railwaypura Post, Ahmedabad. 8, Netaji Subhas Road, Calcutta. *Agent* : Mr. A. P. Jaganathan, Coimbatore. *Secretaries* : Messrs. Gillanders Arbuthnot & Co. Ltd., at New Delhi, Madras and Kanpur.

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Bombay 20. BR

Telephones : 294445/294516/294584.

Telegrams : "ZENPIPES".

Telex No. : 0112458.

Directors :

Shri B. K. Birla (*Chairman*).

Shri S. G. Nevatia.

Shri D. M. Dalal.

Shri S. M. Mohta.

Shri A. V. Birla.

Shri C. B. Garware.

Shri I. K. Kejriwal.

Shri K. S. Nevatia (*Managing Director*).

Shri Anil Saraf (*Secretary*).

Wood-worths, Commerce Centre, Tardeo, Bombay 34 (W.B.).

Wyeth Laboratories Ltd., 146, Bombay Agra Road, Bombay 77.

Y. A. Hajare & Bros., 1st Panjrapole Lane, C. P. Tank, Bombay 4.

Yusufali Goolamhoosen Arsiwalla, 105, Abdul Rehman Street, Bombay 3.

Zenith Assurance Co., Ltd., 91, Apollo Street, Fort, Bombay 1.

ZENITH ELECTRIC STORES, Reliable House for Fans-Lamps-Metres etc. etc. Manufacturers of "SUNRISE" brand Switchgears. 51, Ahmed Building, Lohar Chawl, Bombay 2. Phone: 316198. Grams: "ALLANABANDA".

Zenith Surgical Co., Mangaldas Building, Mangaldas Road, Bombay 2.

ZENITH TIN WORKS PRIVATE LTD., Manufacturers of Plain & Lithographed Tin Containers, Sanitary Cans, Collapsible Tubes & Pilfer Proof Caps, Opp. Race Course, Clerk Road, Mahalaxmi, Bombay 34. Phone : 370375. Grams : "ZENITHTINS". *Directors :* M. S. Barodawala & S. S. Barodawala. Res. : 126, Cadell Road, Mahim, Bombay 16. Phones : 452041 & 454692 and H. A. Barodawala. Res. : Mohamadi Chambers, Byculla Bridge, Bombay 8. Phone : 378498.

Zephyr Leather Works, Sethua Building, Sheikh Memon Street, Bombay 2.

CLASSIFIED LIST OF TRADES AND PROFESSIONS

ABRASIVES

- Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3.
- ABRAWHEEL PRIVATE LTD.**—107, Sarang Street, Bombay 3. Phone: 323214. Sole Distributors for States of Maharashtra & Gujarat, for coated abrasive made by Messrs. John Oakley & Mohan Ltd. Grams: "WHEELABRA."
- Bharat Engineering Stores.—113, Nagdevi Street, Bombay 3.
- Carborundum Universal Ltd.—United India Bldgs, 3rd Floor, Sir Phirozeshah Mehta Road, Bombay 1.
- Engineering Equipment corpn.—44, Nagdevi Cross Lane, Bombay 3 (B.R.).
- Gaytee & Co.—Janmabhoomi Chambers, Fort Street, Bombay 1.
- Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road, Bombay 1.
- Grind-Well Abrasives Limited.—Karim Chambers, 40, Hamam Street, Fort, Bombay 1.
- HINDUSTAN TOOLS & ENGINEERING CO.**—P. O. Box No. 2311, Picket Cross Lane, Bombay-2. Phone: 318965. Grams: "DRILLTAPS". Stockists of Engineering Tools, Hardware, Millgin Stores & Stainless Steel Pipe-fittings.
- Industrial Abrasive Co-op. Society Ltd.—163, P. D'Mello Road, Bombay-1.
- Jacks, & Co., Ltd.—William Hamilton House, Graham Road, Ballard Estate, Fort, Bombay 1.
- Jairamdas & Sons.—163, Narain Dhuru Street, Bombay 3.
- M. DESAI & CO.**—163, Narayan Dhuru Street, Bombay 3. Phone: 323248. Grams: "EMDESAICO." Authorised Stockists for Coated & Bonded Abrasives by Carborundum Universal Ltd.
- MODERN MACHINE TOOLS CO.**—H.O. 88, Nagdevi Cross Lane, Bombay 3. Grams: "MONKEYGRIP". Phone: 322456. Stockists: Grindwell Abrasive Wheel, Dressers and Cutters, Associates: 576, Relief Road, Opp. Zakaria Masjid, Ahmedabad 1. Grams: "RELIGHT". Phone: C/o 25144.
- NAGDEVI TOOL-STEEL MART.**—186-88, Nagdevi Street, Bombay 3. Phones: 323023 and 327058. Grams: "TENDERERS."
- P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3.
- Parry's (Eastern) Private Ltd.—"Amrita", Nepean Road, Bombay-6.
- Shah Trading Corporation.—Oomrigar Building, opp. Crawford Market, Bombay 3.
- William Jacks & Co., Ltd.—Bharat House, Apollo Street, Fort, Bombay-1.

ACCOUNTING MACHINES

- Hollerith (India) Private Ltd.—See International Computers and Tabulators (India) Private Ltd. (Commercial Firms Section).
- Imanes Private Limited.—94, S. V. Road, P.O. Box 8002, Bombay 56 AS. Phone: 571634. Grams: "IMANESCOL." Springs and Forms out of Spring Wires and Strips for your Industry.
- National Cash Register Co.—Steelcrete House, Dinsha Wacha Road, Backbay Reclamation, Bombay 1.

ACETYLENE & OXYGEN GAS GENERATOR MFRS.

- VISHWA BHARATI TRADING CO.**—45, Mint Road, Post Box No. 1052, Bombay 1. Phones: 266371, all Departments. Grams: "VIBHACO." Branch: G.P.O. Box 2628, Calcutta 1. Phone: 336680; Manufacturers of Welding Transformers, Acetylene & Oxygen Gas Generators and Accessories.

ACIDS AND ALLIED PRODUCTS

- C. M. Vora & Co.—160, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
- NAVSARI OIL PRODUCTS PRIVATE LTD.**—Factory & Head Office: Nawsari; Bombay Office: Mehta House, Apollo Street, Bombay 1; Leading Manufacturers and Suppliers of Stearic Acid, Oleic Acid, Glycerine, Metallic Stearates, Fatty Acids in both distilled and undistilled grades, Wire Drawing Lubricants, Nickel Catalyst for Oil Hydrogenation.
- POLYPHARM PRIVATE LTD.**—8, Tamarind Street, Bombay 1. Phones: 257589; 256459. Mfrs. of: "POLYPHARM" Brand of ISI certified Acids, Acetic, Hydrochloric, Nitric, Sulphuric; Also other Chemicals of Pure, A. R. & I. P. Grades.
- Pravin Brothers & Co.—140, N. Master Road, Bombay 1.
- WHEITO Corporation, Light Foot Compound, Hansaraj Lane, Bombay 27.

ACID RESISTING VALVES

- CRESCENT TRADING CO.**—48-50, Bhajipala Street, Bombay 3. Phone: 325140 & 328944. Grams: "WATERMETER." Manufacturers and dealers: Pipes, Fittings, Cocks, Acid Resisting Valves such as Rubber Lined, PVC Lined, Glass Lined and Stainless Steel Valves and Fittings.

ADDING AND CALCULATING MACHINES

- Adding Machines (India) Private Ltd.—Sohrab House, Dadabhoy Naoroji Road, Fort, Bombay 1.
- Burroughs Corporation. Sohrab House, D. N. Road, Bombay 1.
- Imanes Private Limited.—94, S. V. Road, P.O. Box 8002, Bombay 56 AS. Phone: 571634. Grams: "IMANESCOL." Springs and Forms out of Spring wires and Strips for your Industry.
- FORBES FORBES CAMPBELL & CO. LTD., LATHAM DIVISION.**—Forbes Building, Home Street, Fort, Bombay. Phone: 268081. Grams: "LATHAM."
- National Cash Register Co.—Steelcrete House, Dinsha Wacha Road, Backbay Reclamation, Bombay 1.
- P. N. GANESAN PRIVATE LTD.**—Kitab Mahal, Dr. Dadabhoy Nowroji Road, Bombay 1. Phone: 261935. Sole Concessionaires in India for Duplex and Simplex all Electric Comptometer Adding & Calculating Machines.

ADHESIVES AND TAPES MANUFACTURERS

- BLOW PLAST PRIVATE LTD.**—Bombay-Agra Road, Bhandup, Bombay 78. Phone: 581252; Grams: "BLOWPLAST." Manufacturers of P.V.C. self adhesive insulating tape, Polythene Containers, Industrial plastic Items. Specialists in Injection moulding, blow moulding, mould making.
- CHEMISOL INDUSTRIES.**—41, Princess Street, Bombay 2. Phone: 319086; Grams: "BAYCITY". Manufacturers of Kemcol & Chemistik range of industrial adhesives.
- CIBA OF INDIA LIMITED.**—Royal Insurance Building, 14, Jamshedji Tata Road, Bombay-1. Phones: 295031-3; 296084-6. Manufacturers and importers of synthetic resin adhesives for industrial and domestic purposes.

FAMOUS PLY-N-BOARD

228, Bazar Gate Street, Fort, Bombay I. BR.

Authorised Stockist of Commercial & Decorative Plywoods, Blockboards, Okalboards, Flush Doors, Cement Sheets, "Formica" Sheets, Thermocole Slabs, Fevicol, Mowicol and Dunlop Adhesives.

Phone: 263979

ADVERTISING AGENTS AND CONSULTANTS

- Advertising Agency, Peerbhoy Bldg. No. 2, 89 S. Gandhi Marg., Bombay 2.
- ADVERTISING & SALES PROMOTION CO.**—Steelcrete House, Dinsha Vachha Road, Bombay 1. Phone Nos. 295512 and 295482; Grams "SALESAID." Head Office at Calcutta, Branches at Bangalore & New Delhi.
- Adverts Private Ltd.—Syndicate Bank Bldg., Sir Phirozshah Mehta Road, Bombay 1.
- AJANTA ADVERTISING.**—Marketing & Advertising Consultants, Lakshmi Building, Sir Phirozshah Mehta Road, Bombay 1. Phone: 263343/44. Grams: "ADCOUNSEL"; Chief Executive: Jacob Verghese. Branches at: Calcutta & Madras. Associates throughout the World.

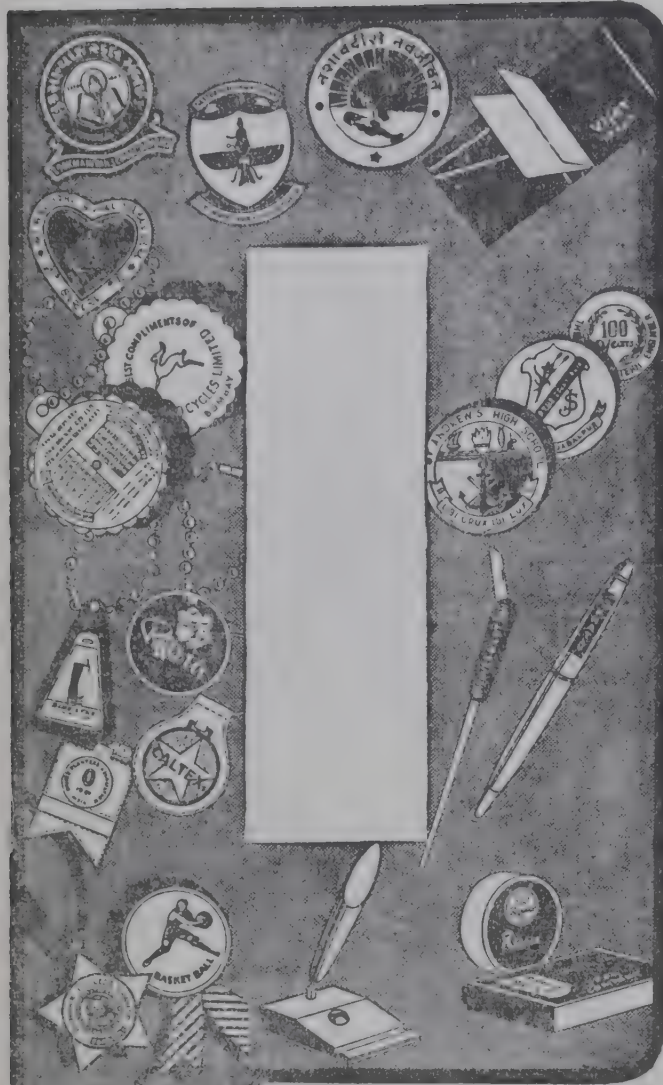
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mer's specifications.

PLUCK & CO.

Office & Works:—

Block No. 22, 3rd Floor,
Prabhadevi Industrial Estate,
CADEL ROAD, BOMBAY - 28.

Bombay Advertising Society.—Commerce House, 140, N. Master Road, Fort, Bombay 1.
Everest Advertising Private Ltd.—Kitab Mahal, Dr. Dadabhy Naoroji Road, Fort, Bombay 1.

GRANT ADVERTISING INTERNATIONAL INC.—Lotus House, Marine Lines, Bombay 1. Phone No. 291222 (4 lines). Grams: "GRANTCHI"; Advertising Agents & Consultants. S. Chatterji, Chief Divisional Manager. Branch Offices at Calcutta, Madras, Delhi (37 Branches all over the World).

Green's Advertising Service Agents.—29, Nariman Road, Fort, Bombay 1.

Gujarat Advertising Agency Pvt. Ltd.—Dahanukar Building, 480, Kalbadevi Road, Bombay 2.

HEROS' PUBLICITY SERVICE.—4-B, Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1. Phone: 292178-19. Grams: "HEROSPUB."

IND ADVERTISING AGENCY (Estd. 1914).—Accredited by the Indian and Eastern Newspaper Society, New Delhi. Recognised by Newspapers all over India. 15, Commercial Chambers, Masjid Bunder Road, Mohamedally Road Corner, Bombay 3. Phone: 322422.

INDUSTRIAL ADVERTISING AGENCY.—23-25, Hamam Street, Fort, Bombay 1. Advertising Agents & Publicity Consultants. Phone: 250143.

Lintas Limited.—Hindustan Lever House, 169 Backbay Reclamation, Bombay 1.

LPE-Aiyars Private Limited.—241, Backbay Reclamation, Bombay 1.

Mahadeo, T. S.—Crescent Chambers, Tamarind Street, Fort, Bombay 1.

MEDIA AGENCY PRIVATE LTD.—Lentin Chambers, Dalal Street, Bombay. Phone: 257733. Grams: "MEDIAAD."

Modern Advertising Bureau.—Opp. Jai Hind Cinema, Bombay 12.

National Ad-Sales Ltd.—Jan Mansion, 61, Sir Phirozshah Mehta Road, Fort, Bombay 1.

NATIONAL ADVERTISING SERVICE PRIVATE LTD.—Advertising, Market Research, Public Relations. Estd. 1931. Regd. Office: Khorshed Building, Sir Phirozshah Mehta Road, Bombay 1. BR. Grams: "JEYENJEYN", Bombay; Tel. Nos. 263023, 263024 and 261060; Also at Pharmed House, 141, Fort Street, Bombay-1 (BR). Branch Offices at Calcutta, Madras & New Delhi; Associates in 71 countries. Chairman & Managing Director: Kailash C. Jain.

New India Publicity Co., The.—Podar Chambers, S. A. Brelvi Road, Fort, Bombay 1.

OAM (Organization for Advertising & Marketing) Publicity Consultants.—It pays to advertise through OAM 512, Arun Chambers, Tardeo Main Road, Bombay 34. Phone: 374135.

P. N. Joshi & Co.—147, Mahatma Gandhi Road, Fort, Bombay 1.

PRATIBHA ADVERTISING.—Advertising Agents & Consultants. Bangalore Office: House No. 1, Setlur Street, Longford Town, Bangalore-25. Bombay Office: E-4, IONIC, Off Arthur Bunder Road, Colaba, Bombay 5. Phone: 212424; Grams: "PRATIAD." Delhi Office: 66, Babar Road, New Delhi 1. Phone: 42782. Grams: "PRATIBHA". Poona Office: "Cosmos," Prabhat Road, Poona 4. Phone: 55670; Grams: "PRADVERT."

Press Syndicate Ltd.—Readymoney Bldg., Apollo Pier Road, Bombay 1.

R. C. Advertising Co.—Advertising Agents & Publicity Consultants, 73, Tamarind Lane, Fort, Bombay-1. Phones: Office: 256383. Resl: 355458. Grams: "ARCIAD", Bombay.

RANJIT SALES AND PUBLICITY PRIVATE LTD.—111-A, Mahatma Gandhi Road, Fort, Bombay No. 1. Grams: "RANJITSALE." Phones: 253161, 253126; Branches: 32, Metcalfe Street, Calcutta 13. Grams: "RANJITAD (C)"; Phone: 234253; 60/2, Janpath, New Delhi; Grams: "RANJITADV". Phone: 48876.

RATAN BATRA PRIVATE LTD. (Estd. 1936).—Accredited by the Indian & Eastern Newspaper Society and All India Radio —Commercial Broadcasting Services; Member of Advertising Agencies Association of India, Society of Advertising Practitioners and Audit Bureau of Circulations Ltd. Regd. Office: Ilaco House, Sir Phirozshah Mehta Road, Bombay 1. Phone: 262747. Contact and Service Departments: Cool Manor, Colaba, Bombay-5. BR. Phones: 214182, 212987, 213780.

SHANTILAL G. SHAH & CO.—Advertising Agents. Manu Mansion, 16, Custom House Road, P.B. No. 1682, Bombay 1. Phone: 311596. Chief Executive: Shanti G. Shah, B.Com.

Shilpi Advertising Ltd.—13, Wittet Road, Ballard Estate, Bombay 1.
Sista's Ltd.—United Bank of India Building, Sir Phirozshah Mehta Road, Fort.

Stronach & Co. (India) Private Ltd., L. A.—Wavel House, Graham Road, Ballard Estate, Bombay 1.
Thompson Company Private Ltd., J. Walter.—Lakshmi Building, Sir Phirozshah Mehta Road, Bombay 1.

ADVERTISING GIFTS & NOVELTIES

Amar Plastic Industries—43, Queen's Road, Bombay-2. Manufacturers of Cinema Screens, Plastic Lace Mats, PVC Battery Separators, Tea Trolleys, Decorative PVC Tiles and Eardefenders Badges. Phone: 314326. Grams: "RUMTREE".

BOMBAY PLASTIC CORPORATION.—Elphinstone Building, 10, Veer Nariman Road, Bombay 1. Phone: 252527. Grams: "BESIEGER." Manufacturers of Plastic Advertising & Complimentary Articles.

BRIGHT BROTHERS PRIVATE LTD.—156/A, Tardeo Road, Bombay 34. Grams: "BRIBOS." Phone: 375342 (4 Lines). Specialists in Plastic Gift Advertising Novelties.

EXCEL PROCESS (P) LTD.—Manufacturers of Anodised Aluminium Labels, Advertising Gifts, Scales, Dials, Badges, Decorative Radio Trimmings & Panels, Identity Cards & Photographs in exclusive finishes, City Office: 22-D, Parsee Bazar Street, Bombay 1; Phones: 259181 and 573327.

S. R. BROTHERS.—406, Commerce House, Meadows Street, Bombay-1 BR. Grams: "GODMESSAGE". Phone: 256446. Advertising Gifts for Executives, Inexpensive Give-aways for mass publicity, Pocket & Table Diaries, Greeting Cards.

THACKER & CO. LTD.—Booksellers, Printers, Publishers, Stationers, Subscription Agents, Registered Office & Printing Press: Evergreen Industrial Estate, Shakti Mill Lane, Off Dr. E. Moses Road, Mahalaxmi, Bombay-11 BC. Phones: 378204, 378205. Show Room: 18, 20, Rampart Row, Fort, Bombay-1 BR. Phone: 262613.

Zephyr Leather Works.—1st Floor, Sethna Building, Kitchen Garden Lane, Sheikh Memon Street, Bombay 2.

AERATED WATER MANUFACTURERS

BRANDON & CO., PRIVATE LTD.—Elphinstone Building, Churchgate Street, Fort, Bombay 1. Phone: 252433. Factory: Spencer's Building, Forjett Street. Phone: 364798.

DUKE & SONS (PVT.) LTD.

(Estd. 1889)

GRANT ROAD - BOMBAY 4
Phones: 351347 & 351934

Manufacturers of Aerated Waters and Fruit Drinks
"MANGOLA", "PINEOLA" and "Nu ORANGE"
Made from Fresh Fruit Juices

Bottles washed, syruped,
filled and crowned by completely automatic machinery
thereby ensuring absolute
purity and cleanliness.

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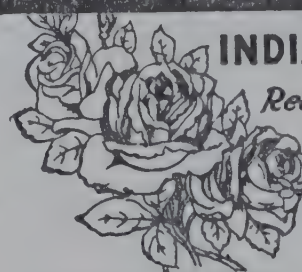
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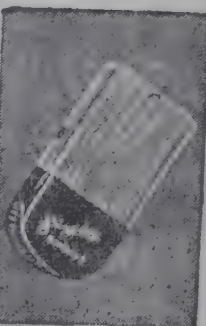
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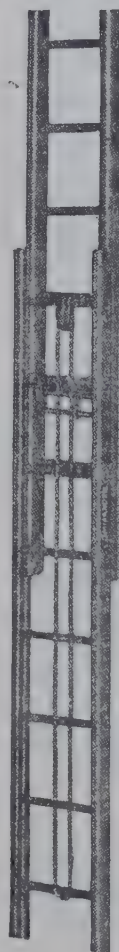
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Gregson, Batley & King.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Bombay 1.

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Hormasji Ardeshir, F.I.I.A., M.I.E. (Ind.), L.C.E.—22-D, Parsi Bazar Street, Fort, Bombay 1.

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Kapadia & Baria.—5, Convent Street, Bombay 1.

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Karim Noorani & Co.—Mustafa Bldg., 19, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Kora & Bhatt.—22, Apollo Street, Fort, Bombay 1.

Merchant, V. H. & Co.—14, Old Custom House Road, Bombay 1.

Merwanjee Bana & Co.—Cama House, Dalal Street, Fort, Bombay 1.

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Odhawji Lawji & Co.—Chikhal House, S. Gandhi Marg, Bombay 2.

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693261 & 693262. Cables: "CLEAR TUBE" Kandivli—
Bombay-67. "CLEAR TUBE", Bombay-1.

Automobile & Agricultural Industries Corp.—497/3, Roop-Raj,
Sardar V. Patel Road, Bombay 4.

Automotive Corporation (India).—431, Lamington Road, Bombay 4.
Automark Private Ltd.—95K, Omer Park, B. Desai Road,
Bombay 26.

Automotive Manufacturers' Agencies.—White House, 91, Walkesh-
war Road, Bombay 6.

Bharat Electric & Engineering Corporation.—Free Press Building,
Ground Floor, 21, Dalai Street, Fort, Bombay.

Bombay Cycle & Motor Agency Ltd.—534, Sardar Vallabhbhai
Patel Road, Bombay 7.

Bombay Garage Private Ltd.—Meher Bldg., Chowpatty, Bombay 7.

Bombay Motor House.—479, Banji Nivas, Sandhurst Road,
Bombay 4.

Bombay Motor Trading Co.—Cutch Castle, near Opera House,
Bombay 4.

C. Vakil & Co. Private Ltd.—407/3, Roop-Raj, Sardar V. Patel
Road, Bombay 4.

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Road, Bombay 4.

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Empire Automobile.—M. P. Marg, Bombay 4.

Fleming, John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone:
261153.

Foreign Products Distributing Co.—494, S.V.P. Road, Bombay 4.

GABRIEL INDIA LTD.—Agra Road, Mulund, Bombay 80.
Phone Nos. 594111 (6 lines), 591751, 591728; Grams: "GAB-
RIEL", Bombay, Mulund. Manufacturers of Shock Ab-
sorbers for Cars, Trucks, Motor Cycles, Scooters & Three-
Wheeler.

GLEITLAGER INDIA PVT. LTD.—Manufacturers of Thick
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Bombay-1. Phone : 316122. Grams : "GLEITLAGER."

George Oakes Private Ltd.—Swadeshi Mills Compound, M. P. Marg,
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Hind Equipment Corporation Private Ltd.—24/B, Hamam Street,
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HINDUSTAN FERODO LIMITED (A member of the Turner &
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Road, Ghatkopar, Bombay 77 AS. Grams: "FERODOSTAN".
Phone : 581491 (9 lines); Sales Offices at Calcutta, Madras
and New Delhi; Phone : Calcutta 449185, Madras 85610 and
New Delhi 83605; Manufacturers of "FERODO" Brake
& Clutch Linings.

H. S. Chaddha & Sons.—Ramchandra Mansions, S.V.P. Road,
Bombay 4.

Himoco (India) Private Ltd.—Kandivta, M. Vasanji Road, Bombay
59.

IMANES PRIVATE LIMITED.—94, S. V. Road, Eral, P.O.
Box No. 8002, Bombay 56 AS. Phone: 571634. Grams:
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INDIA RUBBER PRODUCTS.—Kasturchand Mills Estate,
Dadar, Bombay-28. Tele. 454072. Manufacturers of Industrial
& Moulded Rubber Products such as Rubber Bushes, Rings
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INDIAN WATCH ENTERPRISES.—Factory: J. B. Nagar, Andheri-Kurla Road, Bombay-59. Phone: 572244. Office: 11/43, Tamerind Lane, Fort, Bombay-1. Phone: 252174; Items Manufactured: Clutch lever repair Kits and Components thereof for T.M.B. Trucks, Dodgekew, Dodge Timken axle, Dodge Fargo, Bedford J-4 Trucks, Willys Jeeps Civilian and Military and also for Cars—Ambassador, Landmaster, Fiat, Hillman, Morris, etc. Gear Shaft Washers of Dodgekew trucks and Needle Rollers of all descriptions for automobile line and worm follower Kits for Dodgekew and Mercedes Benz trucks Trade Mark "INWENTER-IAD."

JYOTI MOTOR ACCESSORIES.—Office: Contractor Bldg. No. 1, Opp. Frarhana Samaj, Bombay 4; Phone: 354150; Retail Shop: 138, New Charni Road, Bombay 4; Phone: 353404. Wholesale Shop: 342, Sardar V. P. Road, Bombay 4; Grams: "JAGJYOTI." Phone: C/o 354150. Importers & Stockists of Jagger's Bus Body Fittings, PVC Leather Cloth, Upholstery Materials, Rubber Matings, etc.

Kandawalia & Co.—13, Hughes Road, Bombay 7.

Khothari Brothers & Co.—Khira Bhavan, Sandhurst Bridge, Bombay 7.

Metropolitan Springs Private Ltd.—Antop Hill, Sheikh Mistry Road, Bombay 31.

Motor Industries Co., Ltd.—79, Dr. Annie Besant Road, Worli, Bombay 18 (WB).

NATIONAL AUTOMOBILE CO. (PRIVATE) LTD.—Nagindas Mansion, Opera House, Bombay 4. Phone: 351850. Grams: "NEW AUTO." Stockists of genuine spare parts of Dodge, Leyland Trucks & TMB, TKS & Buses.

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.—Office: Pandyan House, 309, Frere Road, Bombay-1. Phone: 261523. Grams: "GULDASTA." Factory: 38, Powai Lake Road, Saki Naka, Kurla, Bombay-70. Phone: 582681/2. Manufacturers of Steel, Alloy Balls, Grinding Media & Automobile Parts, Miniature Balls.

NEW HAVEN ENGINEERING CO. PRIVATE LTD.—Nanjee Building, 17-B, Horniman Circle, Bombay 1. Phone: 257616. Grams: "GULDASTA." Manufacturers of Automobile Parts, Machinery Spares, Bright polished bolts and nuts, Socket head cap Screws, Precision turned automatic parts, etc.

New Pioneer Trading Co.—459, Sandhurst Road, Bombay 4.

Nishat Trading Co.—461, S. V. P. Road, Bombay 4.

Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort, Bombay-1.

Pradeep & Co.—Kothari Mansion, Parekh Street, Bombay 4.

Premier Automobiles Ltd.—Office: Construction House, Ballard Estate, Bombay-1.

Provincial Motor Car Co., Ltd.—Purshottam Bldg., Opera House, Bombay 4.

Regal Motors.—Old Victoria Mills Compound, Gamdevi, Bombay 7.

Reliance Automobiles.—Manu Mansion, 475, Sandhurst Road, Bombay 4.

Replacement Parts Co.—Banji Niwas, S.V.P. Road, Bombay 4.

Sanghi Motors (Bombay) Private Ltd.—9, Mathew Road, Bombay-4.

Shetty Automobiles.—R. B. Bansilal Building, Opera House, Bombay 4.

Skf Ball Bearing Co. Private Ltd.—M. Gandhi Memorial Building, Subhas Road, Bombay 2.



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United Industries of India.—82, Opera House Tram Terminus, Bombay 4.

Universal Automobiles.—461, S.V.P. Road, Bombay 4.

AUTOMOBILE REPOWERING EQUIPMENTS

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Agarwal Machine & Engineering Stores.—63, Nagdevi Cross Lane, Bombay 3.

ANIL BEARING STORES.—163, Narayan Dhuru Street, Bombay 3; Phone: Office: 323552, 328226; Res.: 366438; Tel. Address: "CHEAPSTORE." Distributors: SKF and NBC Bearings, Ball Bearings, Taper Roller Bearings, Steel Balls.

ANTI-FRICTION BEARINGS CORPORATION LTD., THE.—Marshall Building, 20, Ballard Road, Bombay 1 (BR.). Phone: 261647, 265306; Manufacturers of Roller Bearings and Thrust Ball Bearings in Technical Collaboration with Messrs. Steyr-Daimler-Puch AG., Austria; Telegram: "BALLTHRUST".

Associated Export-Import Corporation.—381, Dr. D. N. Road, Bombay 1.

B. CHOWDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-3420/79. Grams: "BISUKHI." Distributors for SKF Ball Bearing Co. Private Ltd., Bombay for their Overseas Associates: Messrs. Artiebolaget Svenska Kullagerfabriken, Gothenburg (Sweden), Messrs. SKF Kugellagerfabriken, G.m.b.H. Schweinfurt (West Germany), Messrs. SKEKFO Ball Bearing Co. Ltd., Luton, England.

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BOMBAY BALL BEARING SUPPLYING CO.—349 353, Samuel Street, Bombay 3. Phone: 321151. Grams: "GOLABADAM."

BOMBAY MERCANTILE CORPORATION.—211-217, Nagdevi Street, Bombay 3; Phone: 325982; Grams: "CORPBOMBER"; Stockist of SKF Ball Bearings.

MOTOR TRADE SUPPLY CO., THE.—Parekh Mansion, Sardar V. P. Road, Bombay-4. Telegram: "MOTRASUPCO." Stockists of Timken, SKF, RIV, R & M, Baltzer and Pollard Bearings. Phone: 351119.

PRECISION BEARINGS INDIA LTD.—Registered Office: Wavell House, 15, Graham Road, Ballard Estate, Bombay 1. Phone No. 262711; Factory: Zambuva, P.O. Makarpura, Baroda, Gujarat State; Phone: 3896; Manufacturers of "Norma" Ball & Roller Bearings, Licensed to manufacture 24 lakh pieces per year on three shift basis; Technical Collaborators: Norma-Hoffmann Bearings Company, a division of Universal American Corporation, U.S.A.; Selling Agents: Turner Hoare & Co., Ltd., Madras, Mysore, Kerala and Andhra Pradesh. Universal Bearing Company Private Ltd.: Maharashtra, Madhya Pradesh, Rajasthan, Goa and Gujarat.

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Grams: "FORESIGHT".

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Specialists in Ball & Roller Bearings.

RADIANT BEARING CO.—212, Yusuf Mehera'i Road (Masjid Bunder), Bombay 3 BR. Phone: 329284; Grams: "SENDATONCE"; Madras Office: 62, Tambu Chetty Street, Madras 1; Phone: 29813; Grams: "FANBEARING". Importers and Stockists of all types of Industrial and Automobile Ball, Roller, Taper Roller, Thrust Bearings & Steel Balls in imported make. Authorised Stockists of NBC, SKF Indian Bearings.

Roberts McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort, Bombay-1.

Shah Brothers.—Sandhurst Bldg., 524, S.V.P. Road, Bombay 4. Skf Ball Bearing Co. Private Ltd.—M. Gandhi Memorial Building, Subhas Road, Bombay 2.

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Phone: 371901

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DEHRAJLAL & CO.—15, New Queen's Road, Bombay 4; Phone: 354412-352058; Res.: 473703; Grams: "RICEMILL".

Greentose Corporation (India).—24 Dalal Street, Fort, Bombay. Heatly and Gresham Ltd.—43, Forbes Street, Fort, Bombay-1.

Jayant Engineering & Mill Stores.—39, Nagdevi Cross Lane, Bombay 3.

Mehta, J. V., & Co.—Opera House Tram Terminus, Bombay 4.

MASRANI MILLGIN STORES.—46, Nagdevi Cross Lane, Bombay 3; Direct Importers & Stockists of Ball, Roller & Taper Roller Bearings; Specialists in Steel Balls; Phone: 321646; Grams: "BEARINGS".

MODERN MACHINE TOOLS CO.—H.O. 88, Nagdevi Cross Lane, Bombay 3; Grams: "MONKEYGRIP". Phone: 322456; Stockists: MERCER & KEW Ball & Thrust Bearing, MERCER 4040 Dubi Bearings, MERCER Sleeve Nuts and NSK Pedestals. Associates: 576, Relief Road, Opp. Zakaria Masjid, Ahmedabad 1; Grams: "RELIGHT". Phone: C/o 25144.

Trade (India) Corporation.—58, Mohamedalli Road, Bombay.

TURNER, HOARE & COMPANY LIMITED.—Head Office:—Wavell House, 15, Graham Road, Ballard Estate, Bombay-1. Phone: 262711 (8 lines). Cable: "ENDEAVOUR". Code: ACME & BENTLEY'S. TELEX: 2282. Offices: Delhi, Calcutta & Madras.

Universal Services Corporation Ltd.—457/9, S.V.P. Road, Bombay 4. Upper India Trading Co., Ltd.—Ravel Building, Lamington Road, Bombay 4.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay-1.

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 Bombay Garage Ltd.—Meher Building, Chowpatty, Bombay 7.
 Chloride & Exide Batteries (Eastern) Ltd.—Savoy Chambers, Wallace Street, Bombay-1.
 Estrela Batteries Limited.—Yusuf Building, Veer Nariman Road, Fort, Bombay 1.
 General Radio & Appliances Private Ltd.—Opera House, Bombay 4.
 Himco (India) Private Ltd.—Head Office: Kandivta M. Vasanji Road, Bombay 59.
 Industrial Machinery & Tools Corp.—Indira Nivas, 1st Floor, Anantikabai Gokhale Street, Bombay 4.
 Modern Electric Corporation.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay-1.
 Provincial Motor Car Co., Ltd.—New Queen's Road, opp. Opera House, Bombay 4.
 Ruby Battery Corporation (Private) Ltd.—31, French Bridge, Lila House, Chowpatty, Bombay 7.
 Sarabhai & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.
 Standard Batteries Ltd.—Vakola, Bombay 25.
TURNER, HOARE & COMPANY LIMITED.—Head Office:—Wavell House, 15, Graham Road, Ballard Estate, Bombay-1. Phone: 262711 (8 lines). Cable: "ENDEAVOUR". Code: ACME & BENTLEY'S. Telex. 2282. Offices: Delhi, Calcutta & Madras.
 Union Carbide India Ltd.—Laxmi Building, Sir P. M. Road, Fort, Bombay 1.
 Universal Services Corporation Ltd.—Mody Chambers, French Bridge, Bombay 7.

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 Essential Engineering Co.—11, Horniman Circle, Fort.
 Mehta Nanavati & Co.—Barbhai Moholla, 96, Narayan Dhuru Street, Bombay 3.
 P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 2.

BELTING (TEXTILE) MANUFACTURERS AND SUPPLIERS

- ABDEALLY, B. M., & CO.**—127, Sarang Street, Bombay 3. Phone: 326980. Grams: "ALERTDEAL".
 Allied Exporters.—Kumud House, Dr. Dadabhoy Naoraji Road, Fort, Bombay.
ALTEX LIMITED.—147, Mahatma Gandhi Road, Fort, Bombay 1. Phone: 251082. Grams: "BETEX".
 Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort, Bombay-1.
 Ashok Engineering Co.—Stock Exchange, Old Building, Bombay 1.
 Associated Machine & Tool Co.—130, N. Master Road, Fort, Bombay 1.
 Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay-1.
 Bharat Electric & Engineering Corporation.—21, Dalal Street, Fort.

BOMBAY MERCANTILE CORPORATION.—211-217, Nagdevi Street, Bombay 3. Phone: 325922. Grams: "CORPBOMBEEER." Distributors for "STAR" Brand Transmission Beltings and Hoses. Distributors of Good Year Flat Belts and V-Belts.

Bombay Mill Store Supply Co., Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort, Bombay-1.
 Brady, W. H., & Co., Ltd.—12, Vir Nariman Street, Fort.
 Card Clothing & Belting Ltd.—J. K. Building, Graham Road, Ballard Estate, Fort, Bombay-1.

Edgar Handley & Co. Private Ltd.—125, Meadows Street, Fort, Bombay.

Gannon Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Bombay-1.

General Trading Corporation.—36-B, Tamarind House, Tamarind Lane, Fort, Bombay-1.

Greentose Corporation (India).—24, Dalal Street, Fort, Bombay.
 Hardcastle, Waud & Co., Ltd.—Alice Building, D. N. Road, Fort, Bombay-1.

Herman & Mohatta, B. R., Ltd.—Mustafa Building, Sir Phirozshah Mehta Road, Fort, Bombay-1.

Hiralal Gokaldas Dalal & Co.—47, Nagdevi Cross Lane, Bombay 3.
 Honest Trading Corporation.—Beaman Chambers, N. Master Road, Bombay 1.

Jashwantlal Maneklal & Co.—40, Veer Nariman Street, Fort, Bombay-1.

Jayant Engineering & Mill Stores.—Industries House, Nagdevi Cross Lane, Bombay 3.

Laxminarayan Mill Supply Co.—Noble Chambers, 116, S. A. Brelvi Road, Bombay 1.

Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort, Bombay.
 Mehta & Co., S.—Anees Chambers Annexe, Tilak Marg, Bombay 1.
 Merchants Bros.—151, Nagdevi Street.

M. Kantilal & Co.—70, Nagdevi Cross Lane, Bombay 3.
 Modern Machine Tools Co.—88, Nagdevi Cross Lane.

Modern Mill Stores.—97, Nagdevi Street, Bombay 3.

P. RATILAL & CO.—43, Dhanji Street, Moti Mahal, Bombay 2. Phone: 325980. Grams: "ETERNAL." Cockills' V-Belts, Blue Star V-Link Belting, Endless Woven Belts. "GRIPIT" Chrome Leather Nylon Sandwich Belts, Vari-Speed Belts.

B. Mohanlal & Co.—38, Bibijan Street, Bombay 3.

Roberts McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort, Bombay-1.

Sheth, S. C. & Co., Private Ltd.—Raja Bahadur Mansion, 8, Hamam Street, Fort, Bombay.

Sizing Materials Co. Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort, Bombay-1.

Techno Industrial Co.—16, Apollo Street, Fort, Bombay-1.

Textile Supplies Syndicate (India) Private Ltd.—India House, Fort Street, Bombay 1.

VIKRAM & CO.—258, Nagdevi Street, P.O. Box No. 3266, Bombay 3 B.R. Phone: 322981. Manufacturers' Representatives, all types of Hose Fittings. Authorised distributors for "GOODYEAR" Transmission Beltings, Vee Belts, Link Belts, Hoses, etc.

Voltas Limited.—Strand House, Graham Road, Ballard Estate, Fort, Bombay-1.

Western India Tanneries Ltd.—2A, Dharavi, Bombay 17.

BILLIARD TABLE MANUFACTURERS

- D. S. COUTINHO.**—Billiard Table Manufacturer. 31-33, D'Lima Street, Mazagaon, Bombay 10.
 Dawson & Co.—24, Parsee Bazar Street, Fort, Bombay 1.

BISCUIT MANUFACTURERS

- Akterally Ebrahimji Pharmacy & Department Store.—45, Veer Nariman Road, Fort, Bombay 1.
 Britannia Biscuit Co., Ltd., The.—Bombay Office and Factory: Reay Road Bridge, East.
 J. B. Mangharam & Co.—12, Gunbow Street, Fort, Bombay.
 Parle Products Manufacturing Co. (Private) Ltd.—Thackersey House, Graham Road, Ballard Estate, Bombay.
 Renown Biscuit Co., The.—Connaught Road, near Victoria Gardens, Bombay 27.
 Shangrila Food Products Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay-1.
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Batliboi & Company Private Limited.—Reg. Office: Forbes Street, P. Box 190A, Fort, Bombay-1 (BR). Phones: 259611 (6 lines). Grams: BATLIBOICO. Tele.: 011-2284. City Branch: BATLIBOI HOUSE, 59, 61, Nagdevi Cross Lane, Bombay-3 (BR). Branches: Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, Indore, Jaipur, Kanpur, Ludhiana, Madras, New Delhi, Patna, Secunderabad, Vijayawada. Associate: Bangalore 2. Resident Representatives: Bhopal, Bhubaneswar, Raipur, Rajkot.

BOBBINS AND SHUTTLES

Acme Bobbins & Shuttles Private Ltd.—Ash Lane Cr., Bombay 28. Allied Exporters.—Humud House, Dr. Dadaboy Naoroji Road, Fort, Bombay.

ALTEX PRIVATE LIMITED.—147, Mahatma Gandhi Road, Fort, Bombay 1. Phone: 251082. Grams: "BETEX."

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort, Bombay-1.

Empire Trading Co.—78-A, All Chambers, Tamarind Lane, Fort, Bombay-1.

Greentose Corporation (India).—Cama Buildings, 24, Dalal Street, Fort, Bombay-1.

Imanes Private Limited.—94, S. V. Road, P. O. Box 8002, Bombay 56 AS. Phone: 571634. Grams: "IMANESCOL." Springs and Forms out of Spring Wires and Strips for your Industry.

Indo-Textile Stores, The.—16, Apollo Street, Fort, Bombay 1.

Industrial Trading Agency.—Y, Meheralli Road, Bombay 3.

JUGMOHANDAS SAMULDAS & SONS.—45, Tamarind Lane, Fort, Bombay-1. Phone: 257910. Grams: "CHEMISTRY". Specialities: Shuttles, Bobbins, Textile Leather Goods, Bandings, Twines & Tapes, etc.

Laxminarayan Mill Supply Co.—Noble Chambers, 116, S. A. Brelvi Road, Bombay 1.

Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort, Bombay-1.

Mehta Parikh & Co.—45, Apollo Street, Fort, Bombay-1.

Modern Mill Stores.—97, Nagdevi Street, Bombay 3.

Modern Shuttles Manufacturing Co., Ltd.—15, Forbes Street, Fort, Bombay-1.

National Trading Company.—263, D. N. Road, Fort, Bombay 1.

Paramount Textile Agency.—45, Apollo Street, Fort, Bombay.

R. R. JINDE & CO.—14, Mohan Nivas, Chandavarkar Road, Bombay 19. Grams: "GOLDENHILL." Phone: 472267.

Roberts McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.

Sardesai & Company.—14, Murzban Road, Fort, Bombay.

Shamsun & Co.—11, Bruce Street, Fort, Bombay-1.

Sheth, S. C., & Co., Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort, Bombay-1.

Texmaco (Gwalior) Ltd.—Gwallor. Sales Office: 254-A, Annie Besant Road, Bombay 18.

Volts Ltd.—19, Graham Road, Ballard Estate, Bombay-1.

Wilson Brothers Bobbin Co., Ltd.—Seksaria Chambers, 139, Meadows Street, Fort, Bombay-1.

BOILER MOUNTINGS & FITTINGS

C. VADILAL & CO.—40, Nagdevi Cross Lane, Bombay 3 (BR). Phone: 321553; Grams: "GREASECUP."

CRESCENT TRADING CO.—48-50, Bhajipala Street, Bombay 3. Phones: 325140 and 328944; Grams: "WATERMETER." Manufacturers and Dealers; Pipes, Fittings, Valves, Cocks, Gauges, Boiler Mountings, Blow off Valves & Steam Valves, etc., etc.

Jivaji & Vastal.—122, Nagdevi Street, Bombay 3.

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone: 324645. Grams: "REDJOINT."

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Brady, W. H., & Co., Ltd.—12, Veer Nariman Road, Bombay 1.

Greentose Corporation (India).—Cama Buildings, 24, Dalal Street, Fort, Bombay-1.

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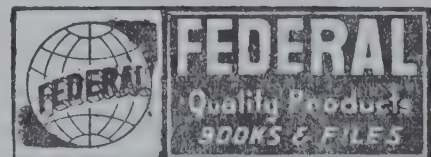
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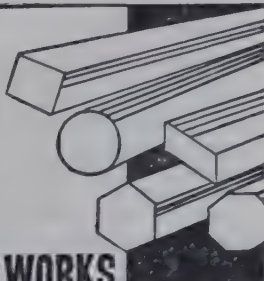
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ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 326980. Grams : "ALERTDEAL".
A. K. Porbandarwalla Sons.—Ruby Mansion, 19, S. A. Brelvi, Bombay 1.
Elliott Waud & Hill Private Ltd.—Lakshmi Bldg., Sir P. M. Road, Bombay 1.
Micro Metal Works.—217B, M. Shaukatali Road, Bombay 8.

ORIENT PAINT & HARDWARE MART

67, C. P. Tank Road, Bombay No. 4 (BR).

Importers, Agents, Stockists, Suppliers. Dealers in Iron, Hardware, Bolts, Nuts, Screws. Specialists in "Steel Wood Screws". Stockists of Nettlefolds Screws, Rivets, G.K.W. Bolts and Nuts. Agents for National Screws. Specialists in manufacturing of Hardware & machines parts to customers specification, blue print or samples.
 Grams : "ADHIKAR". Phone : 333768.

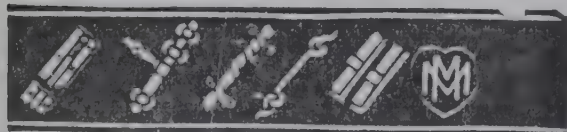
Stanley Works, The.—44, Lakshmi Bldg., Sir Pherozshah Mehta Road, Bombay 1.



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A. M. Lakdawalla.—23, Dhoboo Street, Bombay 3.
Aranha Agencies.—190, Savarkar Marg, Bombay 16.
Associated Building Materials Corporation.—20-C, Dalal Street, Fort, Bombay 1.
Chandulal Narandas.—96, Kika Street, Bombay 4.
CIBA OF INDIA LIMITED.—Royal Insurance Building, 14, Jamshedji Tata Road, Bombay-1. Phones : 295031-3; 296084-6. Manufacturers and Importers of Synthetic resin adhesives for industrial and domestic purposes.
Heatly and Gresham Ltd.—43, Forbes Street, Fort, Bombay.
INDUSTRIAL MINERALS & CHEMICAL CO. PVT. LTD.—125, Narayan Dhuru Street, Bombay 3. Phone : 323721 (3 lines). Grams : "IMCHEL." Chemicals & Mineral Merchants and Stockists of Raw Material for all Industries.

J. N. Raja & Co.—51, C. P. Tank Road, Bombay 4.
Kanakia Corporation.—83A, N. Dhuru St., Bombay 3.
Natson Manufacturing Co. Private Ltd.—19, Hamam St., Fort, Bombay 1.
P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3.
R. Moolchand & Co.—44, Nagdevi Cross Lane, Bombay-3.
Simplex Timber Mart.—64-66-68, Ibrahim Mohd. Merchant Road, Khadak, Bombay 9 (India). Phone : 331794. Grams : "LADDER-MAN". Municipal Contractors, Dealers in Bamboos and Bamboo Mats, Mangalore Tiles, etc. Manufacturers of all kinds of Single, Folding, Sliding, Extension and wheeled tower ladders, boat oars and flag poles etc.
William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay.

BULLION

Begraj Gupta.—207, Kalbadevi Road, Bombay 2.
Hemchand Mohanlal & Co.—Deoki Bhuwan, Dhanji Street, Bombay 3.
Khimji Poonja & Co.—Wadia Building, 17/19, Dalal Street, Fort, Bombay-1.
Merwanjee Bomanjee Dalal.—45-47, Apollo Street, Fort, Bombay.
MOTILAL VIJBHUKHANDAS.—155, Shaikh Memon Street, Bombay 2. Dealers & Refiners. Ready Gold, Silver, Sovereigns, Commission Agents. Brokers in Securities & Shares and General Merchandise. Importers of Chemicals. Exporters—Pearls—Stones and Electrical Meters, etc. Phone : 326537. Grams : "AMIABILITY".
Pyarelal Gupta & Co.—207, Kalbadevi Road, Bombay 2.
Ramsarup Gupta & Co.—705, Cotton Exchange, Kalbadevi Road, Bombay 2.

CABLES & WIRES MFRS. & DEALERS

Asian Cables Corporation Ltd.—Office : "Nirmal", 241, Backbay Reclamation, Bombay 20.
Associated Electronics.—357, Bhatkamkar Marg, Bombay 7.
BIPINKUMAR ELECTRIC CORPORATION.—14, Tavawala Building, Lohar Chawl, Bombay 2; Phone Nos. : 311684 & 312185; Grams : "BIPINDEV"; Dealers : M.E.M. Copperwires, Fans, Meters, Accessories & Everything Electrical. Sole Agents for "VINOLEX CABLES," VIR-CTS and Weather Proof and Super Deluxe Plastic Cables and Philco Resin Cored Solder Wire, Lime Light Fluorescent Fixtures.
Bombay Cable Co. Private Ltd.—United Bank of India Bldg., 6th Floor, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Bombay Insulated Cables & Wires Co.—10, Himalaya House, 79, Palton Road, Bombay 1.
British Insulated Callender's Cables Ltd.—Esplanade House, Waudby Road, Bombay 1.
Devilaval Cable Industries Ltd., Gupta Mills Estate, Reay Road, Bombay 10.
Elde Corporation.—Ismail Building, Dadabhoy Naoraji Road, Fort, Bombay 1.
Fleming, John, & Co., Private Ltd.—P. B. No. 76, Bombay 1.
INDIA METAL TRADERS.—92/94, Kika Street (Gulawadi), Bombay 4. Manufacturers of AAC and ACSR Conductors, Copper Conductors, Copper Strips and Bus Bars, stranded Copper Wires, binding Copper Wires and tinned Copper Wires. Phone : 334093; Grams : "METALDRAW." (GG).
Indian Cable Co., Ltd.—Esplanade House, Waudby Road, Bombay 1.
Johnson & Phillips Ltd.—Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate, Bombay 1.
National Supply & Distributing Agency.—Jay Mahal, 20-48, Lohar Chawl, Bombay 2.
Plasticables Private Ltd., The.—Lentin Chambers, 34, Dalal Street, Fort, Bombay 1.
Power Cables Pvt. Ltd.—24, S. A. Brelvi Road, Bombay 1.
PREMIER RUBBER & CABLE INDUSTRIES.—Jamal Building, 211, Nagdevi Street, Bombay 3. Phone : 326551. Grams : "RUBBERGOODS." Manufacturers of P.V.C. and Rubber Insulated Cables of all types.
PYROTENAX INDIA LIMITED.—9, Wallace Street, Fort, Bombay-1. Phone : 263031. Grams : "ALPYRO". Manufacturers of : Pyrotex Mineral Insulated Copper or Aluminium covered Cables.
RAJASTHAN CABLE INDUSTRIES LIMITED.—Todi Estates, Lower Parel, Bombay 13. Phone : 371336. Grams : "OFFER"; Manufacturers of Rubber, P.V.C. Welding, Auto, Household, General Cables on the rate contract of D.G.S. & D. and "ISI" marked.
Raval & Co.—Shreeji Bhavan, Lohar Chawl, Bombay 2.

AVIN TRADING COMPANY.—5, Mohatta Market, Palton Road, P.O. Box No. 1969, Bombay 1. Grams: "BEWITCH." Phone: 26-4883. Specialists in HT & LT underground cables, PVC insulated cables for Power and Control, Wires of all sizes. **ALPYRO FLAME-PROOF CABLES**, etc. Branch: Mody Chambers, Dharmendra Road, Rajkot; Regional Distributors for "TROPIDUR" Wires, "TROPIDUR" Cables & **APLSTS Cables** for Saurashtra & Kutch.

SHAMSHER STERLING CABLE CORPORATION LTD.—Regd. Office: Vaswani Mansion, Dinshaw Vaccha Road, Bombay-1. Manufacturers of: Electric Cables & Wires, Magnetic Wires, PVC Power Cables, in technical collaboration with Messrs. Showa Electric Wire & Cable Co. Ltd., of Japan and A.C.S.R. & A.A. Conductors.

Standard Elec. & Engg. Co.—'Sardar Ghiha,' 1st Floor, Lohar Chawl, Bombay 2.

Thermo Plastic Industries.—78, Lad Path, Bombay 33.

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UNIVERSAL
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ADVERTISING FANS

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104, Ardeshir Dadi Street, Vithalbhay Patel Road,
Phone No. 352293. **Bombay 4.**

CROWN ELECTRIC PRINTING WORKS.—111-A, Mahatma Gandhi Road, Fort, Bombay 1. Phone: 251437. Fine Art Printers, Calendar & Diary Manufacturers.

Everest Calendar Co.—Prospect Chambers Annexe, D. N. Road, Bombay 1.

Fidvi Printing Press.—179, Abdul Rehman Street, Bombay 3.

S. R. Brothers.—406 & 412/A, "Commerce House," Meadows Street, Fort, Bombay 1.

Vakil & Sons (Private) Ltd.—Narandas Building, Sprout Road, 18, Ballard Estate, Bombay 1.

CANNERS (FRUITS & VEGETABLES)

Akbarally Ebrahimji Pharmacy & Department Store.—45, Veer Nariman Road, Fort, Bombay.

D. & P. Products Private Ltd.—Manufacturers of "Dipy's" brand canned foodstuffs. Marketing Division: Aban House, Rope Walk Lane, Bombay-1.

Dr. Writer's Chocolates & Canning Co.—Bhavanishankar Road, Dadar, Bombay 28.

Fruit Farm Products Co.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay-1.

Kalvert, A. & Co.—90/92, Mazagon Road, Bombay 10.

Pure Products & Madhu Canning Ltd.—Sion-Trombay Road, Chembur, Bombay 71.

CANTEEN STORES & EQUIPMENT SUPPLIERS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: "ALERTDEAL."

Akbarally Ebrahimji.—Behramji Mansion, P. Mehta Road, Bombay 1.

Khira Steel Works Private Ltd.—Factory: Swami Vivekananda Road, Santa Cruz, Bombay 54.

LALLUBHAI AMINCHAND PRIVATE LTD.—Proprietors: Dun Aluminium Factory: 225 227, Tardeo Road, Bombay 7. Manufacturers of "Cycle" Brand Aluminium Wares & "Queen" Brand Stainless Steel Utensils & Other Non-Ferrous metalware. Phones: 377154 (4 lines); 333987 & 333988; Telex: 011-2464. Grams: "CYCLEBRAND."

NATIONAL STEEL EQUIPMENT CO.—8, Katrak Road, Wadala, Bombay 31; Phones: 441155, 442139, 442973; Grams: "BED-LOCKER", Wadala, Bombay; Manufacturers of Pressure and Non-Pressure Steam Sterilizers and Autoclaves, Pyrogen-free Water Still, Premature Baby Incubators and complete range of Industrial Heavy-Duty Catering (Kitchen) Equipment. Branches: Delhi, Calcutta, Madras.

PEARL METAL WORKS.—20, Wadi Bunder Road, Mazagaon, Bombay 10. Phone: 373880; Grams: "PEARLWORKS". Manufacturers and exporters of "PEARL" Brand Stainless Steel Kitchen, Hospital, Canteen Wares and Cutlery.

Salemahomed Padamsee & Co.—S. Devji Street, Bombay 3.

CANVAS

Dossa Harjee.—257, Yusuf Meherally Road, Bombay 3.

MORARJI PERAJ & CO, TALPATRIWALA.—138, Yusuf Meher Ali Road (Masjid Bunder Road), Bombay 3. Phone: 322352 (Office); Partner: Mr. J. S. Thakker; Resi. Phone: 473944. Grams: "TALPATRI". Manufacturers of "ELEPHANT" Brand 100 per cent Waterproof Tarpaulin & Polythene and Paperlined Hessian Bags; Wholesalers Hessian Cloth, Canvas & Jute, Turine, Gunny Bags, Waterproof Papers & Eyelets, etc.

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Radiant Electric & Machinery Co.—Sir Vithaldas Chambers, Bruce Street, Bombay 1.

'Use CIC Capacitor/There is non better'

Sole Distributors for Maharashtra & Gujarat States

PRAKASH (INDIA) TRADERS

70, Bank of Baroda Building,

Carnac Road, Bombay 1.

Grams: "AIRLIGHT."

Phone: 263540.

CARBON BRUSH MFRS.

JOSEPH LESLIE & CO.—Engineers, 105, Apollo Street, Bombay 1. Carbon Brushes for "Electrical Machines & Automobiles". Given preference throughout for uniform and Continuous Output. Phone: 251608.

CARBON PAPER MANUFACTURERS

JAGJIVANDAS NANDLAL & CO.—237, Abdul Rehman Street, Bombay 3; Phone: 323634; Grams: "SWANHOUSE". Sole Distributors for Electric Pen-Pencil, Wax-Backed Type-writing Carbon Papers, Electric Staples in Sizes 24/6, 26/6 and B. 8.

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CIEM TRADING CO. PVT. LTD.—Manufacturers & Government Contractors. Manufacturers of Paper Sleeves, Insulated Tubes, Centres for Reeling, Postal Tubes, Cartons, Discs, etc. Ciem Estate, Ramchandra Lane Extn., Malad, Bombay-64 (N.B.). Phones: 693272/73. Grams: "CIEMITE", Bombay 64.

Claridge, G., & Co., Ltd.—Frere Road, Fort, Bombay 1.

EVEREST PACKAGING CORPORATION.—Agra Road, Bhandup, Bombay-78. Phone: 581255. Manufacturers of Corrugated Shipping Containers, Cartons, Corrugated Paper & Boards, Outer boxes and Paper Packing Requisites.

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Office: 30 Western India House, Sir Pherozeshah Mehta Road, Bombay 1. Phones: 258845, 252478. Gram: "FIBREBOX".

Factory: Jayant House, Ball Bazar, Andheri-Kurla Road, Kurla, Bombay 70. Phones: 555237-555238.

KADRI PAPER BOX FACTORY.—30, Mohamedali Road, Bombay 3. Phone: 332856; Cardboard and Corrugated Board Boxes of every size and description with printing if required. Also Ampoule Boxes and Ampoule Trays; Grams: "BOXWORK."

MOHAMADI FINE ART LITHO WORKS.—Proprietors: Allibhoy Sharafally & Co. Private Ltd. (Estd. 1876; Incorporated: 1938); Mohamadi Buildings, Gunpowder Road, Mazagon, Bombay 10. Lithographers, Offset and Letterpress Printers, and Carton Manufacturers. Phones: 378148 & 378149. Grams: "KORAN."

Ryland Paper Box Manufacturing Co.—Factory at: Industrial House, near Paradise Talkies, Lady Jamshedji Road, Mahim.

STANDARD PAPER BOX MFG. CO.—51, Mangaldas Road, Lohar Street, Bombay 2; Phone: 310774; Grams: "ROSY TONE"; Manufacturers of Cardboard & Corrugated Boxes & Packaging Material.

CARDBOARD BOX MAKING MACHINERY AND MATERIAL SUPPLIERS

A. A. MORBIWALA & CO.—109/111, Abdul Rehman Street, Bombay 3. Phone: 323280. Grams: "VARNISH (MD)." Direct Suppliers of Stitching Wires and Wires of all kinds.

Gunvantray & Co.—Crescent Chambers, 1st Floor, Tamarind Lane, Bombay 1.

CARGO SUPERINTENDENT AND SURVEYORS

Therapeutics Chemical Research Corporation.—95, Morland Road, Byculla, Bombay 8.

CARPETS MANUFACTURERS & DEALERS

Bombay Swadeshi Co-operative Stores Co., Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort.

Carpets Palace.—Opp. The Taj, Apollo Bunder, Fort, Bombay.

E. PEERBHAY & SONS (The Indian Durries Emporium).—Prop.: A. H. SETRANJIWALA; Indian Durries Emporium, 64, Mohamedali Road, Shahru Castle, Bombay 3. Phone: 323806.

Hassaram, K., & Co.—New Silk Bazar, Kalbadevi, Bombay 2.

Hotchand Motumal.—331, Hornby Road, Fort, Bombay-1.

Kabul and Kashmir Store.—15 Lansdowne Road, Apollo Bunder, Fort.

Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.

Mirzapur Carpet Industries.—"Nishat," 24, Mangalore Street, Fort, Bombay.

Modern Indian Art Crafts.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort, Bombay-1.

Noorbhai Jivaji.—Tyebi Manzil, Bhendy Bazar, near Tram Junction.

Royal Carpet & Tapestry Emporium.—Dina Buildings, 58, Queen's Road, opp. Marine Lines Station.

Royal Carpets & Cane-Furniture Manufacturing Co.—Mani Bhawan, Hughes Road, Bombay 7.

CASTINGS (Ferrous & Aluminium Mfrs.)

Bombay Alloys & Castings.—Lake Road, Bhandup, Bombay 78.

SURESH ENGINEERING CO. PRIVATE LTD.—414-B, Walbat Road, Goregaon East, Bombay 63 NE. Phone: 692832. Manufacturers of Grey Iron Castings to I.S.I. grades upto 3 tonnes individual Casting.

CASTING & C. I. FITTINGS

SHREE RAM MILLS LIMITED.—Engineering Division, Sales Office and Works at Udhna, Dist. Surat, Gujarat State. Phones: 8330 8343. Telex: 018-219. Sales Office at Fergusson Road, Lower Parel, Bombay-13.

CAST IRON PIPES & SPECIALS

GENERAL TUBES PRIVATE LTD.—142/44, Nagdevi Street, Bombay 3; Phones: 322894 & 328390. Grams: "GENTUBES." Jivraj & Vrajlal.—122, Nagdevi Street, Bombay 3.

CATALYSTS

CATALYST (INDIA) LIMITED.—Manufacturers of: Vanadium Pentoxide Catalyst for Sulphuric Acid Plants under licence from MONSANTO COMPANY, U.S.A. Regd. Office: 79, Masjid Bunder Road, Bombay-3.

HOSEINBHAY A. LALLJEE SONS & CO.—Navsari Bldg., Dadabhoy Naoroji Road, Bombay 1. Phone: 262052; Grams: "Flowermead." Sole Agents for:—CATALYSTS AND CHEMICALS INC., Louisville, Kentucky, U.S.A. Catalysts for Nitrogen Fertilisers, Petroleum and Petrochemical plants.

CATERERS, PURVEYORS & BAZAR SUPPLIERS

BRANDON & CO. PRIVATE LTD.—Elphinstone Building, Churchgate Street, Fort. Phone: 252433.

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Babadi K. N., & Sons.—19, Ropa Lane, Chandanwadi.

Tambe, B. Private Ltd.—Sangrli Sadan, Girgaum Road.

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CEMENT AND CONCRETE COMPANIES

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tives, Bhopal, Bhubaneswar, Raipur, Rajkot.

GAMMON INDIA LTD.—Civil Engineers & Contractors,

Regd. Office: Gammon House, Veer Sawarkar Marg, Pra-

bhadevi, Bombay 25 DD. Phone: 454261 (5 lines); 452214;

452215. Grams: "GAMMON", Bombay-Dadar.

Gannon Dunkerley & Co., Ltd.—Chartered Bank Building,

Mahatma Gandhi Road, Fort, Bombay-1.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road,

Ballard Estate, Fort, Bombay-1.

McKenzies Ltd.—Sewri.

Modern Concrete Art Industries.—Opp. Cave Road, Bombay 60.

PLAS-FAB PRIVATE LTD.—Advent, 7th Floor, 12A, General

J. Bhosle Road, Bombay 1. Phone: 214258. Grams:

"FILTERFAB". Leading Suppliers of all types of Woven

and Non-woven Filter Cloth and industrial Machine

Clothing.

Raval & Co.—21, Bank Street, Fort, Bombay-1.

Simplex Concrete Works & Construction Co.—"La-Citadelle," 32,

Karve Road.

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261658. Grams: "AIMILBOM".

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Bombay 2. Phone: 359710. Cables: "OTCASNART".

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PLAS-FAB PRIVATE LTD.—Advent, 7th Floor, 12A, General

J. Bhosle Road, Bombay-1. Phone: 214258. Grams: "FILTER-

FAB". Leading Suppliers of all types of Woven and Non-

Woven Filter Cloth and industrial Machine Clothing.

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Metro Cycle Co.—421, Kalbadevi Road, Bombay 2.

RAJKAMAL TRADERS.—23, Hamam Street, Bombay 1. Stock-

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45 FH & Roller Type Chains. Malleable Chains. Flat Card

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ABDULHUSEIN PEERBHAI & SONS.—66-68/A, Peerbhai Building, Bhandari Street, Bombay 3. Phone: 323956. Grams: "STUDCHAIN". Stockists of Marine Stores, Chains, Wire Ropes, Chain Pulley Blocks, Ship Tackles, Winches, etc.

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS." Phone: 323193. Stockists of Elephant Brand Chain Pulley Blocks.

ESOOFALLI ESMAILJI KARACHIWALLA & CO.—43-45, Bhandari Street, Bombay 3. Phones: 321617, 329167. Grams: "SLING". Stockists of Best Indian Make and Imported Chain Pulley Blocks of all types—Worm Gear, Triple Gear, Spur Gear. Also manufacturers of overhead "SWIFT" brand Monorail Trolleys to suit all Chain Blocks.

HEMANT TOOLS TRADING CO.—33, Bibijan Street (Barbhai Mohalla), Bombay 3. Grams: "LACING." Phone: 321174. Importers & Stockists of Chain Pulley Blocks, Garage Tools, Fibre Sheets, Rods. Diamond Dressing Tools, Precision Tools etc.

HEPTOOLA NOORUDDIN & CO. (Estd. 1910).—154, Nagdevi Street, Bombay 3. Phone: 326787. Grams: "IMMUNITY." Stockists of and dealers in Marine—Mill Gin—Industrial Stores.

Jairamdas & Sons.—163, Narain Dhuru Street, Bombay 3.

CHAINS (SHORT LINK AND CABLE)

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: 'ALERTDEAL'.

ABDULHUSEIN PEERBHAI & SONS.—66-68/A, Peerbhai Building, Bhandari Street, Bombay 3. Phone: 323956. Grams: "STUDCHAIN." Stockists of Marine Stores, Chains, Wire Ropes, Chain Pulley Blocks, Ship Tackles, Winches, etc.

AMIRUDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1. Phone: 257982, 258633; Grams: "PILOTACE."

ESOOFALLI ESMAILJI KARACHIWALLA & CO.—43-45, Bhandari Street, Bombay 3. Phones: 321617, 329167. Grams: "SLING". Stockists of Best Indian Make and Imported Chain Pulley Blocks of all types—Worm Gear, Triple Gear, Spur Gear. Also manufacturers of overhead "SWIFT" brand Monorail Trolleys to suit all Chain Blocks.

Fleming, John & Co., Private Ltd.—P.B. No. 76, Bombay 1.

HEPTOOLA NOORUDDIN & CO. (Estd. 1910).—154, Nagdevi Street, Bombay-3. Phone: 326787. Grams: "IMMUNITY". Stockists of and dealers in Marine—Mill Gin—Industrial Stores.

INDIAN LINK CHAIN MFRS. LTD.—L. B. Shastri Marg, Bhandup, Bombay 78. Manufacturers of "HERCULES", "INDALLOY", "GANESH", brand electrically welded mild, Higher Tensile and alloy steel chains. Chains manufactured strictly according to Indian, British and German standards. Also manufacturers of precision calibrated chains for chain pulley blocks, Hoists, and Conveyors, all types of slings, other lifting equipment and cast steel stud link anchor chains with all fittings. Phone: 582311/2. Grams: "INLINCH," Bhandup.

Shalebhoj Tyebjee & Sons.—12, Bruce Street, Bombay 1.

CHEMICAL ENGINEERING EQUIPMENT

D. Parikh Engineering Works.—Industrial Machinery Manufacturers for Textile, Chemical and Laundry. Factory & Office: Nagoo Sayachi Wadi, New Prabhadevi Road, Bombay-25-DD. Phones: Factory: 452648 Resl.: 534980.

ECHJAY INDUSTRIES PVT. LTD.—Office & Factory: Kanjur Village Road, Bhandup, Bombay-78. Phones: 581211 & 581212. Grams: "ECHJAY," Bhandup. Manufacturers of Accessories & Equipment for Machine Tools, General Steel Drop & Upset Forgings—including Forged Flanges; Forged Parts of Diesel Engines & Automobiles, Forged Hand Tools, Hand Hammers, Chisels & Punches, Spanners, Pliers, Jigs & Fixtures, Press Tools Dies & Punches.

Emmes Metals Private Ltd.—138, Government Industrial Estate, Bombay 67.

G. K. KANSARA.—118, Kansara Chawl, 1st Floor, Kalbadevi Road, Bombay-2. Apparatus for Chemical, Industrial, Pharmaceutical Industries. Phone: 334925.

GANSONS PRIVATE LIMITED.—Administrative Office: Industry Manor, Off Cadell Road, Bombay-25 DD. Phone: 453154. Grams: "INMAG". Manufacturers of Pharmaceutical and Chemical Process Plants & Equipments in

Stainless Steel: Storage Vessels, Jacketed Pans, reaction Kettles, Agitators, Mixers & Blenders, Distillation Columns, Vacuum Shelf Drier, Heat Exchanger, Multi-Mill, Planetary Mixer, Powder Filling Machine, Industrial Pyrogen Free Distilled Water Plant, S. S. Soxhlet Distillation cum Extraction Unit, etc. Ampoule Cutters.

HIND TANK MANUFACTURING CO.—Trimbak Parsuram Street, Bombay 4. Phone: 331845. Grams: "INDUSPLANT." Designers and Fabricators of Complete Plants, Machinery and equipment for all Industries. Also manufacturers of Storage Tanks.

INDIA RUBBER PRODUCTS.—Kasturchand Mills Estate, Dadar, Bombay-28. Tele.: 454072. Manufacturers of Industrial & Moulded Rubber Products, such as Rubber Bushes, Rings, etc. to Drawing and specifications.

K. MAHADEV & CO. PRIVATE LTD.—Datta Mandir Road, Bhandup, Bombay-78. Phone: 581920. Manufacturers of Chemical & Pharmaceutical Machinery.

METTALICA WORKS PRIVATE LTD.—138/141, Govt. Industrial Estate, Kandivli (West), Bombay 67 (NB); Phone: 693211 (8 lines); Makers of Non-ferrous Metals, Alloys, Castings, Anodes, Lead Sheets and Lead Wool.

National India Engineering Co. Ltd.—7, Horniman Circle, Fort, Bombay 1.

Regal Trading Co. (Bombay).—Hamam Street, Fort, Bombay 1.

SUMMIT ENGINEERING CO.—G.P.O. Box No. 1357, Bombay 1. Manufacturers of Pressure and Storage Vessels, Structural Steelworks, Tank, etc.

Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay 1.

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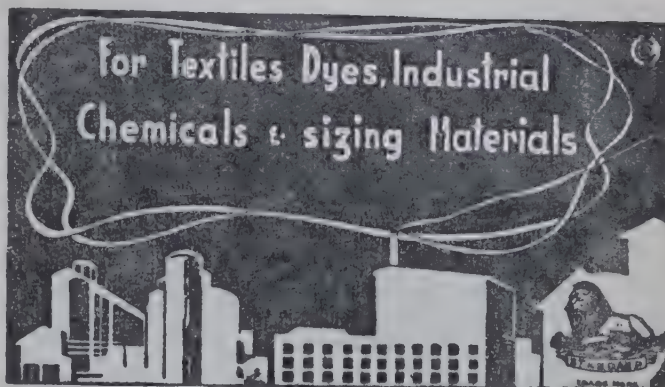
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Vora Trading Co.—Vakil Bldg., Vadgadi, Bombay 3.

Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.

Yacoob Ahmed Brothers.—Topiwalla Mansion, Mahomedalli Road.

CHEMICALS (PHARMACEUTICALS)

B. M. SHAH & CO.—40, Princess Street, Bombay 2. Phone : 319915. Grams : "BONAFIDE." Direct Importers of Drugs, Pharmaceutical & Laboratory Chemicals.

Bengal Chemical & Pharmaceutical Works Ltd.—Sawarkar Marg, Bombay 25.

Chemical International.—3, S. Gandhi Marg, Bombay 2.

CHUDGOR & CO. PVT. LTD.—Regd. Office : Anand Bhuvan, Princess Street, Bombay 2 (BR); Phones : C/o 311023, 311024, & 311025; Grams : "CHUDGORECO", Bombay 2 (BR). Dealers in Chemicals, Dyes, Sizing Materials & Waxes, etc.

C. J. Seth & Co.—48, Mangaldas Road, Bombay 2.

COMMERCIAL SOLVENTS CORPORATION.—Commissariat Building, 5th Floor, 231, Dadabhai Naoroji Road, Bombay 1. Phones : 265446, 262762. Grams : "SOLVO." Stockists of Chemicals, Solvents etc.

I.C.I. (India) Private Ltd.—Crescent House, Wittet Road, Bombay 1.

INDUSTRIAL SOLVENTS & CHEMICALS PRIVATE LTD.—Manufacturers of ANAESTHETIC ETHER B.P. for safe and reliable Anaesthesia. Bombay-Agra Road, P.O. Wagle Wadi, Thana.

KANTILAL MANILAL & CO.—16, Princess Street, P.B. No. 2162, Bombay 2; Phones : 314530 & 310230; Telex : 2591; Suppliers of Pharmaceuticals, Industrial Laboratory Chemicals, Solvents, Preservatives, Fatty Acids, etc. Grams : "DAYLIGHT."

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Premji Vishram & Co.—310, Sheikh Memon Street, Bombay 2.
S. Javeri & Co.—Mangaldas Building, No. 3-A, Mangaldas Road, Bombay 2.

S. MATHURADAS & CO.—P.O. Box No. 2113, Princess Street, Bombay 2. Grams : "SMATHURCO." Phone: 311273. Stockists of Laboratory & Fine Chemicals, Analytical & Laboratory Re-agents, Amino-Acids, Stains, Drugs, Vitamins, etc. manufactured by E. Merck & other renowned products.

Scientific & Industrial Supplies Corporation.—17, Babu Genu Road, Bombay 2.

WANDER LIMITED.—Shivsagar 'A', Dr. A. Besant Road, Bombay-18. Phone : 377765. Manufacturers of Chemicals (Anti T. B. Drugs) and Pharmaceuticals. Factory : Sion-Trombay Road, Deonar-Chembur, Bombay-71. Phone : 521807.

Volras Ltd.—Strand House, Graham Road, Ballard Estate.

Wyeth Laboratories Limited.—N. A. 146, Shastri Marg, Bombay 77.

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Adani Brothers.—Mulchand Mansion, Princess Street, Bombay 2.

Addy Pharmacy.—Har Ganga Mahal, Khodadad Circle, Dadar, Bombay 14.

AKBARALLYS RIGHT PRICE DEPARTMENT STORE.—45/47, Veer Nariman Road, Fort, Bombay. Phone : 253921. Grams : "TUSSEBAR." Drugs Store : Behramji Mansion, Sir P. M. Road, Fort, Bombay. Phone : 261548.

Allied & Co.—Devkaran Mansion, —5 Princess Street, Bombay 2.

Amesey Khimji & Co.—56, Varjivan Mansion, Princess Street, Bombay 2.

AMRUTLAL BHURABHAI & CO.—P.O. Box No. 2379. Anand Bhuvan, Princess Street, Bombay 2 (BR); Phones : 311023, 311024 & 311025. Grams : "CHEMDRUGS", Bombay 2 (BR). Direct Importers and Dealers of all kinds of Laboratory Chemicals, Drugs & Essential Oils.

Amulakh Kalyanji.—14, Mangaldas Road, Princess Street, Bombay 2.
Anglo-French Drug Co. (Eastern) Ltd.—Yusuf Building, Vir Nariman Street.

Anglo-Indian Drug & Chemical Co.—285, Jumma Masjid, Bombay 2.
Arun & Co.—Shop No. 5, Bulakhidas Building, Mangaldas Road, Bombay 2.

Asian Trading Co.—Bode Chawl, Princess Street, P.B. No. 2398, Bombay 2.

Asiatic Stores.—72, Churchgate Street, opp. Churchgate Station, Fort, Bombay.

Atlantic Stores.—Western Breeze Building, Colaba Causeway, Fort.

B. A. & BROTHERS (BOMBAY) PRIVATE LTD.—98, Princess Street, Bombay 2. Phone : 312939. Grams : "BABULINE."

B. Babulal & Co.—Devkaran Mansion, Princess Street, P.B. No. 2409, Bombay 2.

B. Jayantilal & Co.—15, Mangaldas Road, Princess Street, Bombay 2.

B. M. Shah & Co.—40, S. Gandhi Marg, Bombay 2.

B. Vrajlal & Co.—28, S. Gandhi Marg, Bombay 2.

Beliram & Sons.—306, S. Gandhi Marg, Bombay 2.

Belram Chimanlal & Co.—308, Princess Street, Bombay 2.

Benjamin & Sadka.—Anand Bhuvan, 2nd Floor Princess Street, Bombay 2.

BHAGUBHAI & BROS.—Importers & Wholesale dealers of Drugs, Medicines & Toilets, Shuruf Mansion, 32-A, Princess Street, Bombay 2. Phone : 314177.

Bhagwandas Maganlal & Co.—295, Jumma Masjid, Bombay 2.

Bharat Agencies.—31, Forbes Street, Kirti Building, Fort, Bombay 1.

Bharat Drug House.—Devkaran Mansion, Mangaldas Road, Bombay 2.

Bhogilal Premchand & Co.—Mulchand Mansion, 24, Princess Street, Bombay 2.

Bill & Co.—Imperial Mahal, Tram Terminus, Dadar.

Bole Brothers.—49, S. Gandhi Marg, Bombay 2.

Bombay Drug Distributors.—Chhotani Bldg., 54-B, Proctor Road, Bombay 7.

Bombay Pharmacy, The.—Sonawala Building No. 1, Tardeo Road, Bombay 7.

Bombay Medicine Supply Co., The.—46, Old Hanuman Lane, Princess Street, Bombay 2.

Bombay Surgico Medical Agency, Ltd.—P.O. Box 2093, Bharucha Building, Princess Street, Bombay 2.

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Burroughs Wellcome & Co.—Cook's Building, D.N. Road, Bombay 1.

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C. J. Sheth & Co.—48 Mangaldas Road, Princess Street, Bombay 2.

C. K. Reshamwala & Co.—Shuruf Mansion, Princess Street, Bombay.

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C. P. Thakkar & Co.—89, Peerbhai Mansion, Princess Street, Bombay.

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 General Drug & Chemical Co.—Fida Building, Sheikh Memon Street, Bombay 2.
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 Girdharlal & Co.—195, Mangaldas Building, Mangaldas Road, Bombay 2.
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 Gopalidas Visram & Co.—8, Fida Building, opp. Mangaldas Market, Bombay 2.
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 Haribhai Jeebhai & Co.—22, S. Gandhi Marg, Bombay 2.
 Hira, P. H., & Co.—18-20, S. Gandhi Marg, Bombay 2.
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 H. Chandulal & Co.—Mangaldas Building No. 1, Mangaldas Road, Princess Street, Bombay 2.
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 Jadavjee Goverdhandas & Co.—58, S. Gandhi Marg, Bombay 2.
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 Kanchanlal Vadihal & Co.—41-43, Mangaldas Road, Princess Street, Bombay 2.
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 Kantilal Manilal & Co.—16, S. Gandhi Marg, Bombay 2.
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 Kulkarni & Co.—178, Princess Street, Bombay 2.
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 Lavchand Varajdas & Co.—S. Gandhi Marg, Bombay 2.
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 Mahasukhlal Chimanlal & Co.—Mangaldas Road, Princess Street, P.B. No. 2088, Bombay 2.
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 Maneklal & Bros.—61-A, Princess Street, Bombay 2.
 Maneklal & Co.—Ramban Patent Depot, Shuruf Mansion, 32, Princess Street, Bombay 2.
 Manilal & Bros.—Mulchand Mansions, Princess Street.
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 Manilal Motichand Kanani & Co.—Dawawalla Building, 99, Princess Street, Bombay 2.
 Mansukhlal Tribhrowandas & Co.—Princess Street, Vithaldas Road, Devkaran Mansion, Block 8, P.B. No. 2189, Bombay 2.
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 M. H. Javerli & Co.—67, Princess Street, Bombay 2.
 Minerva Medical Stores.—11, Mangaldas Road, Princess Street, Bombay 2.
 M. M. Bharwada.—Mulchand Mansion, Princess Street, Bombay 2.
 Model Chemists.—Mapla Mahal, Thakurdwar, Bombay 4.
 Mohanlal & Co.—61, Princess Street, Bombay 2.
 Mukundlal & Co.—Anand Bhuvan, Princess Street, Bombay 2.
 Narbheram & Sons.—Mangaldas Building No. 1, Princess Street, Bombay 2.
 Nath & Co.—Old Hanuman Lane, Bombay 2.
 N. Himatlal & Co.—S. Gandhi Marg, Bombay 2.
 N. Sunderlal & Co.—89, Princess Street, P.B. No. 2276, Bombay 2.
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 N. Vasantral & Co.—55, Princess Street, Devkaran Mansion, Bombay.
 Odhawjee Lawjee & Co.—Chikhali House, Princess Street, Bombay 2.
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 Oriental Medical & Surgical Stores, Ltd.—Anand Bhuvan, Princess Street, Bombay 2.
 Oriental Pharmacy.—Kapol Nivas, near State Bank, Sandhurst Road.
 Pannalal Ramdayal Chindak.—153, Princess Street.
 Paradkar, K. A., & Co.—Dindalsy Building, Gaiwadi, Girgaum, Bombay 4.
 Patel Ruby & Co.—Cumballa Hill, Bombay 26.
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 Parekh & Co.—Parekh Building, Old Hanuman Lane, Bombay 2.
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 P. M. Zaveri & Co.—10, Fida Building, Princess Street, Bombay 2.
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 Phillimore & Co.—Cumballa Hill, Bombay 6.
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 Pioneer Magnesia Works Ltd., The.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
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 Ratilal Hemraj.—Mulchand Mansion, S. Gandhi Marg, Bombay 2.
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 Roy & Company.—176, Princess Street, Bombay 2.
 Royal Chemists.—Queen's Chambers, Queen's Road.
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 S. MATHURADAS & CO.—P.O. Box No. 2113, Princess Street, Bombay 2. Grams: "SMATHURCO." Phone: 311273.
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 Shah & Co.—Anand Bhuvan, Princess Street.
 Shantilal Ltd.—Princess Street, P.B. No. 2140, Bombay 2.
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 S. Shantilal & Co.—35, Kilka Street, Gulawadi, Bombay 4.
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 P.B. No. 2426, Bombay 2.
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 Thakkar Bros.—32, Princess Street, Bombay 2.
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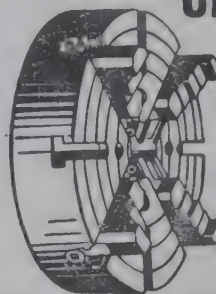
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 289, Bellasis Road, Byculla, Bombay 8.
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 Grams : "Condrugco."
 Crookes Laboratories Ltd.—Court House, Carnac Road, Bombay 2.
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 Mehta Road, Fort, Bombay.
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 Compound, Currey Road, Bombay 13.
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 Phone: 265051. Grams : "MACLON." Manufacturing
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 Road, Bombay 10.
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 Bombay 4.
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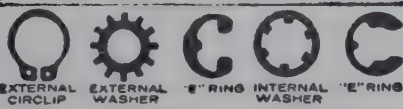
B. CHOWDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-3479. Grams: 'BISUKHI'. Sole Agents for Orbis G.m.b.H., West Germany.

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Lakme Limited.—Bombay House, Bruce Street, Bombay-1.
PEARLINE-PARIS PRIVATE LTD.—Rehman Building, 24, Veer Nariman Road, Bombay-1. Phone: 250037. Grams: "PEARLAB."

COTTON CONTROLLERS

Drennan & Co.—Neville House, Ballard Estate, Bombay-1.
Mehta Ramkrishna & Co.—Khandeival Bhavan, Dr. Dadabhoy Naoroji Road, Fort.
Robertson & Son, Edward T.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

COTTON IMPORTERS & EXPORTERS

Arthur Import Export Co.—166, D. N. Road, Fort, Bombay.
Damji Bhattani & Co.—Podar Chambers, Parsi Bazar Street, Fort.
Devidayal Tulsiaram (Cotton Department).—Darukhana, Reay Road, Bombay 10.
Hindustan Import & Export Corp'n. Ltd.—Albert Building, D. N. Road, Fort.
Italindia Cotton Co., Ltd.—Indian Globe Chambers, Fort Street, Bombay-1.
Jeramdas Naumal.—371, Hornby Road, Fort, Bombay.
MAHENDRA MULRAJ & CO.—31, Forbes Street, Bombay 1.
Premji Haridas & Co.—Bhanushali Chambers, 170, Sant Tukaram Road, Bombay 9.
Raw Cotton Co. Ltd.—111, Mahatma Gandhi Road, Fort.

COTTON DEALERS

BREUL & CO.—Taj Bldg., Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 263981/3 (3 Lines).
DHANRAJMAL GOBINDRAM.—Calcut House, 8-10, Tamarind Street, Fort, P.O. Box No. 590, Bombay-1. Phone: 258148; Sewri: 376315. International Telex 011-2543; Grams: Inland "GURUPUJA", Foreign "EVERFRESH", Offices at all Important Centres in India.
INTERNATIONAL COTTON CORPORATION PRIVATE LTD.—Indian Globe Chambers, Fort Street, Bori Bunder, Post Box 1574, Bombay 1. Grams: "INTERCOTCO." Phones: 262966, 261974. Telex No. 2562. Cotton Merchants, Importers & Exporters.
SHROFF COOPER & CO.—Indian Cotton Specialists; New Stock Exchange Building, Room No. 67, Apollo Street, Fort, Bombay 1; Phone: 251849; Grams: "SROFCOOPER". Cotton Merchants & Commission Agents.

COTTON MILLS

The Ahmedabad Jupiter Spg., Wvg., & Mfg. Co. Ltd.—Indu House, Dougal Road, Bombay 1.
APOLLO MILLS LTD., THE.—N. M. Joshi Marg, Chinchpokli, Bombay 11 (BC). Manufacturers of Grey, Bleached, Mercerised, Dyed and Printed Poplins, Printed Superfine Voiles, Mulls, Dorias, Bleached and Printed Poplins, Shirtings, Grey and Bleached Long Cloth, Sheetings, Grey Sarees, Dyed and Printed Coatings, etc. Directors: (1) Shri Dwarakadas Shrinivas, (2) Shri Keshardeo Shrinivas, (3) Shri Basantilal Ramkumar, (4) Shri Gokalchand Dwarakadas Morarka, (5) Shri Bajranglal Keshardeo Morarka. Technical Adviser: N. L. Loungani; Manager: Shri V. Ananthan; Secretary: Shri K. K. Krishnan.

BOMBAY DYEING & MANUFACTURING CO., LTD. (Spring Mills).—Managing Agents, Nowrosji Wadia & Sons Private Ltd., Neville House, Graham Road, Ballard Estate, Bombay. Mills at Naigaum Road, Dadar. Manufacturers of Cotton Textiles. Office Phone: 268071. Grams: "DYEING" and "TEXTILES." Mills Phone: 441738-9; 441730. Telex No. 2527, Bombay.

BOMBAY DYEING & MANUFACTURING CO., LTD. (Textile Mills).—Managing Agents, Nowrosji Wadia & Sons Private Ltd., Neville House, Graham Road, Ballard Estate, Bombay. Mills at Elphinstone Road, Parel. Manufacturers of Cotton Textiles. Office Phone: 268071. Grams: "DYEING" and "TEXTILES." Mills Phone: 453291-2-3. Telex No. 2572, Bombay.

Bradbury Mills, Ltd.—M. Azad Road, Gode Maharaj Chowk, Bombay 1.

CENTRAL INDIA SPG., WVG. & MFG. CO. LTD.—A Tata managed concern having Regd. Office at Bombay House, 24, Bruce St., Fort, Bombay 1. Phone Nos. 259131 and 258453. Grams: Bombay Office: "CHORALTAR," Nagpur Office: "EMPRESS." Looms: 2,140; Spindles: 1,10,500. Mills at Nagpur, known as Empress Mills. Manufacturers of Cotton Textiles—Longcloth, poplins, shirtings, lawn, drills, mulls, voiles, dhoties, jacquard damasks, jacquard counterpanes, roller & screen prints, lenos, terene blend suitings & shirtings & cotton blankets. The Company exports cloth to Africa, U.K., U.S.A., U.S.S.R., Australia and other countries.

Colaba Land & Mill Co., Ltd. (Jehangir Wadia Mill).—Office on Mill premises. Mills at Victoria Bunder, Colaba, Bombay 5.

Coorla Spinning & Weaving Co. Ltd.—241, Backbay Reclamation, Bombay 1.

Crown Spinning & Manufacturing Co., Ltd. (formerly Dhun Mills): 16, Apollo St., Bombay 1.

DAWN MILLS CO., LTD.—"ESPERANCA," 7th Floor, Colaba Causeway, Bombay 1. Phone: 214200/50; Grams: "DAWN-YARN," Bombay. Mfrs. of Yarn, Cotton Waste Yarn, Cotton Yarn, Carded and Combed, grey, gassed, Bleached, mercerised, Sewing Thread and Embroidery yarn, Warp yarn on beams and waft yarn on pirns, Folded yarn, double and multifold in cable twist and fish net twist, count range, upto 100s singles, folded, 2/10s, 2/28s, 2/30s, 2/36s, 2/60s, 2/80s, 2/100s Staple fire yarn. Hosiery: Manufactured from Cotton, Rayon and Nylon, Vests, Drawers, Sportswear, Fancy garments, Socks, plain, printed and design, Upholstery, net cloth and stockinette. Directors: Ramnivas Ramnarin, Madanmohan Ramnarin, Radakrishna Ramnarin, Shriyans Prasad Jain, Lalitkumar M. Khatau and Nirmal Kumar Ram Nivas.

Dhanraj Mills, Ltd. (formerly Assur Virji Mills, Ltd.).—Sun Mill Road, Lower Parel.

Digvijaya Spinning & Weaving Co., Ltd. (formerly Dinshaw Petit Mills).—Regd. Office, Lalbaug, Parel.

Finlay Mills, Ltd.—Mills at Government Gate Road, Parel.

Gold Mohur Mills, Ltd.—Mills at Main Road, Dadar.

Hind Mills Ltd. (formerly David Mills Co., Ltd.) (Mills Nos. 1 and 2).—Agents, Hind Agents Ltd., 15, Indu House, Dougall Road, Ballard Estate, Fort. Mills at Carroll Road, Parel.

Hindustan Spinning & Weaving Mills Co., Ltd.—M. Azad Road, Bombay 11.

India United Mills, Ltd., Mill No. 1 (formerly Jacob Mill).—H.O. Dougall Road, Ballard Estate, Fort, Bombay 1.

India United Mills Ltd., Mill No. 2 (formerly Alexandra Mill).—Dougall Road, Ballard Estate, Fort, Bombay 1.

India United Mills Ltd., Mill No. 3 (formerly E. D. Mill).—Dougall Road, Ballard Estate, Fort, Bombay 1.

India United Mills, Ltd., Mill No. 4 (formerly Rachel Mill) (formerly Honkong Mills Agarwal & Co., Dougall Road, Ballard Estate, Fort, Bombay 1.

India United Mills, Ltd., Mill No. 5 (formerly Manchester Mill).—Agarwal & Co., Dougall Road, Ballard Estate, Fort.

Jam Mfg. Co., Ltd., Mill No. 1.—Office on Mill premises. Mills at Lalbaug, Parel.

Jam Mfg. Co., Ltd., Mill No. 2 (formerly Birla Mills, Ltd. No. 2).—Mills at Tokersey Jivraj Road, Sewree.

Jubilee Mills, Ltd.—Bharat House, Apollo Street, Fort Bombay 1. Mills at Tokersey Jivraj Road, Sewree.

Kamala Mills, Ltd. (formerly Ebrahimkhoy Pabany Mills).—Maharashtra Bank Bldg., Apollo Street, Bombay 1.

Khatau Makani Spinning & Weaving Co., Ltd.—Regd. Office: Laxmi Buildings, Ballard Estate, Bombay 1.

Kohinoor Mills Co., Ltd., Mills.—Naigaum Cross Road, Bombay 14. Modern Mills, Ltd.—Regd. Office, 70, Forbes St., Bombay 1.

Moon Mills, Ltd.—General Assurance Building, D. Naoroji Road, Bombay 1.

Morarjee Goculdas Spinning & Weaving Co., Ltd.—Office: Dr. Ambedkar Road, Bombay 12.

MUKESH TEXTILE MILLS PRIVATE LTD.—Regd. Office: 6-B, Vulcan Insurance Building, Churchgate, Bombay 1. Head Office & Mills: Victoria Bunder Road, Colaba, Bombay 5. Phones: 213137/38—213032. Dir. 212054; Grams: "COLA-BATEX." Products: Bleached Long Cloths, Dyed and Bleached Poplins, Striped and Check Shirtings, Pyjama

Cloths, Handkerchief Cloths, Towelling Cloth & Prints, Mulls, Voiles, Drill and Coatings; Yarn: 10s to 120s. Board of Directors: Jayant M. Madhvani, B.Sc., LL.B., Manubhai M. Madhvani, Pratap M. Madhvani (Alternate Director) Surendra M. Madhvani (Alternate Director), Sir James T. Simpson (Alternate Director), Shivjibhai H. Suchde, Gokaldas H. Suchde, Liladhar V. Kakad and Natvarlal T. Parakh; General Manager: S. P. Chitre; Manager & Chief Engineer: J. R. Kotwal.

New City of Bombay Manufacturing Co., Ltd.—63, T. Kadam Path, Bombay 33.

New Great Eastern Spg. & Wvg. Co., Ltd.—Head Office: Ambedkar Road, Bombay 7.

New Kaiser-I-Hind Spinning & Weaving Co., Ltd.—Mills at Gorupdeo Road, Chinchpokli.

New Prahad Mills (formerly Planet Mills).—East and West Building, Apollo St., Bombay 1.

Phoenix Mills Ltd., The.—Tulsi Pipe Line Road, Lower Parel, Bombay 13.

Podar Mills, Ltd. (formerly Toyo Podar Cotton Mills, Ltd.)—N. M. Joshi Marg, Bombay 11.

Prakash Cotton Mills Private Ltd. (formerly Seksaria Cotton Mill No. 2).—Seksaria Chambers Medows Street, Bombay 1.

RAGHUVANSHI MILLS LTD.—11-12, Haines Road, Mahalaxmi, Bombay 13; Managing Directors: Shri Surendra Maganlal & Shri Hareeshchandra Maganlal; Office at Mill premises; Mills at Haines Road, Mahalaxmi, Bombay 13; Phones: 377425-6-7; Grams: "RAGHUBIR"; Spindles: 44,000; Art Silk Looms: 144; Manufacturers of Cotton Yarn 10s. to 120s., Terene Shirtings and Suitings, Sewing Threads and Embroidery Yarn Art Silk Fabrics.

Ruby Mills Ltd.—Lady Jamshedji Road, Dadar, Bombay 28. Sassoon Spinning & Weaving Co., Ltd.—Mafatlal House, Backbay Reclamation, Bombay.

Sayaji Mills Ltd.—Ferguson Road, Lower Parel.

Seksaria Cotton Mills Ltd.—N. M. Joshi Marg, Bombay 13.

Shree Madhusudan Mills Ltd.—Delisle Road, Bombay 13. Regd. Office: 31, Chowringhee Road, Calcutta 16. H.O.: Shree Niwas House, Waudby Road, Bombay 1.

Shree Niwas Cotton Mills, Ltd. (formerly Fazulbhoy Mills, Ltd.).—Shree Niwas House, Waudby Road, Bombay 1.

Shree Sitaram Mills Ltd.—Office: 15-A, Horniman Circle, Fort. Mills: Chinchpokli, DeLisle Road, Bombay.

Simplex Mills Company, Ltd.—30, Clerk Road, Jacob Circle, Byculla, Bombay 11.

Standard Mills Co., Ltd.—Krishna Chowk, M. J. Market, Bombay 2. Svadesthi Mills Co., Ltd.—Mills at Kurla.

Swan Mills, Ltd.—Agents, James Finlay & Co., Ltd., Chartered Bank Building, Hornby Road, Fort. Mills at New Sewree Road. Swastik Textile Mills Ltd.—Sion, Trombay Road, Bombay 71.

Victoria Mills Ltd. (formerly Satya Mill, Ltd.).—Mills at DeLisle Road, Parel.

Western India Spinning & Manufacturing Co., Ltd.—Dorabshaw House, Ballard Estate Bombay 1.

COTTON PIECEGOODS EXPORTERS

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

ASIAN TRADING CORPORATION.—P.O. Box 1505. The Mirabelle, 33/A, Marine Lines, Bombay 1. Phone: 292672. Grams: "AJIPIPAS." Exporters of Cotton Piecegoods.

Askay & Co. Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Bajaj Brothers Ltd.—Round Building, Kalbadevi Road, Bombay 2. Beardsell, W. A. & Co., Ltd.—Dhan-Nur Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Begraj Gupta & Co.—Niru Villa, 387, Linking Road, Khar.

B. Naraindas & Co.—Court House, Carnac Road, Bombay 2.

Bulchand, Co., L.—Moos Building, 510, Kalbadevi Road, Bombay 2.

Chimanlal Patel & Co.—174, Hornby Road, Fort, Bombay 1.

Chinobhai & Bros., Ltd.—Churchgate House, Churchgate Street, Fort, Bombay 1.

Consolidated Trading Corporation.—Advani Chambers, Sir Phirozshah Mehta Road, Bombay 1.

Devdas Mulji Kapadia.—Yusuf Building, Hornby Road, Fort, Bombay 1.

Dilaj & Co.—20, Hamam Street, Fort, Bombay 1.

Dinanath Sons.—Bharat Bhuvan, S. Gandhi Marg, Bombay 2.

D. Ram & Co.—Krishna Nivas, New Silk Bazar, P.O. Box 2376, Bombay 2.

Gore & Co.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Govias (India) Ltd.—Bombay Mutual Building, Hornby Road, Fort, Bombay 1.

Haji Ahmed Husan & Co.—Topiwala Mansion, Mohamedally Road, Bombay 3.

Harilal Manilal & Co.—346, Kalbadevi Road, Bombay 2.

Hazarat & Co.—Warden House, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Himalati Manilal & Sons.—346, Kalbadevi Road, Bombay 2.
Hindustan Export & Import Corp. Ltd.—Albert Building, Hornby Road, Fort, Bombay 1.
India Textile Agencies.—Noble Chambers, Parsi Bazar Street, Fort, Bombay 1.
Italindia Cotton Co., Ltd. (Estd. 1922).—Indian Globe Chambers, Fort Street, Fort, Bombay.
Jasawala & Co., R. M.—105, Apollo House, Apollo Street, Fort, Bombay 1.
Jesanglal V. Shah.—Dwarakesh Gully, 1st Floor, Mulji Jetha Market, Bombay 2.
Kapadia & Co.—19, Sir Phirozshah Mehta Road, Fort, Bombay
Kapadia Trading Co.—Botawalla Building, New Silk Bazar, Kalbadevi Road.
Keshavlal Talakchand (Private) Ltd.—India House, Opp. G.P.O., Fort, Bombay 1.
Kishinchand Chellaram.—Guzdar House, Dhobi Talao.
Kotak & Co.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Kotecha & Co.—Commissariat Building, 231, Hornby Road, Fort.
Mansukhlal Kantilal & Co.—Mulji Jetha Building, 185, Princess Street, Bombay 2.
Mata Lachhmi Company.—Husseni Chambers, Nanabhai Lane, Fort, Bombay 1.
Narandas Raiaram & Co., Ltd.—Navsari Chambers, Outram Road, Fort, Bombay 1.
Patel, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Podar Trading Co., Ltd.—Podar Chambers, Parsi Bazar Street, Fort.
Poonjiajee J. M. Jehanjir, J. P.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.
Premji Haridas & Co.—170, Tukaram Road, Bombay 9.
Ramjee Samjee Virani (India) Ltd.—185, P. Nariman Street, Fort.
Rowe & Rowe.—381, Hornby Road, Fort, Bombay 1.
Seabee Export Import Co.—9, Waudby Road, Fort, Phone : 261562.
Steel Brothers & Co., Ltd.—Allahabad Bank Building, Apollo Street, Fort, Bombay 1.
Tavaria Brothers.—Dhan-Nur, Sir Phirozshah Mehta Road, Fort.
Trading Co., L. R.—Navsari Chambers, opp. Lloyds Bank, D. N. Road, Fort, Bombay 1.
Trans-Union Commercial Corporation Private Ltd.—Prospect Chambers Annexe, 319, Dr. Dadabhay Naoroji Road, Fort, Bombay.
Tulsidas V. Patel.—Morarji Goculdas Market, Kalbadevi Road, Bombay 2.
T. Vrajilal & Co.—405, Kalbadevi Road, Bombay 2.
Utoomal & Assudamal Co.—Bombay Mutual Annexe, Gunbow Street, Fort, Bombay 1.
Vaswani (India) Ltd.—496, Kalbadevi Road, Bombay 2.
Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.
Yacoob Ahmed Brothers (ESTD. 1895).—Topiwalla Mansion, Mohamedali Road.

COTTON PIECEGOODS IMPORTERS

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Arthur Import Export Co.—166, D. Naoroji Road, Fort, Bombay.
Kapadia & Co.—19, Sir Phirozshah Mehta Road, Bombay 1.
Mahendralal, B.—7, Shamset St., Bombay 2.
Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.

COTTON AND YARN MERCHANTS

Whenever you think of

COTTON WASTE or RAGS

Remember

ABBAAS & CO.,

General Cotton Waste Merchants, Contractors,
Suppliers & Exporters.

23-25, Tank Street, Near Mastan Tank,
P.O. Box 4580, Bombay 8.

Tel. No.: 371014

Grams : "WASTE-O-RAGS"
Bombay 8.

Askey & Co. Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay.
Associated Services, Pvt. Ltd.—Alli Chambers, Medows Street, Fort.
Bhaldas Cursondas & Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.

Birla Brothers Private Ltd.—Branch Office : Industry House, 159, Churchgate Reclamation, Bombay 1.
Bombay Co., Ltd.—9, Wallace Street, Fort, Bombay 1.
Chinubhai Madhowlal & Co.—Noble Chambers, Parsi Bazar Street, Fort, Bombay 1.
Cotton Agents Private Ltd.—Industry House, 159, Churchgate Reclamation, Bombay 1.
Drennan & Co.—Neville House, Ballard Estate, Bombay 1.
Finlay, James, & Co., Ltd.—Mahatma Gandhi Road, Fort, Bombay 1.
Hansraj Harji & Sons.—118, Kansaara Chawl.
Hirji Nensey & Co.—Horniman Circle, Fort, Bombay 1.
Jasawalla, R. M., & Co.—105, Apollo Street, Fort, Bombay 1.
Jaybharat Yarn Trading Co.—77, Tamba Kanta, Bombay 3.
Kooverjee V. Curumsey & Co.—Lentin Chambers, Dalal Street, Fort, Bombay 1.
Lalji Ramji & Co.—17, Chinch Bunder, Mandvi.
Louis Dreyfus & Co.—Nicol Road, Ballard Estate.
Motabhoj Gulabdas & Co.—Mubarak Manzil, 104, Apollo Street, Fort, Bombay 1.
Nanji V. Dossa & Co.—Nanabhoy Mansion, Sir Phirozshah Mehta Road.
Patel Brothers.—Elphinstone Building, 10, Churchgate Street, Fort, Bombay 1.
Pavri Sons & Co.—95-97, Bazargate Street, Fort, Bombay 1.
Raghavji Kanji & Co.—116, Keshavji Naik Road, Bombay 9.
Ratilal Dayabhai Shah.—Tambakanta, Pydhownie, Bombay 3.
Sankeshchand G. Shah & Co.—Hanuman Building, Tamba Kanta.
Sapt Textile Products (India) Ltd.—J. K. Building, Dougall Road, Ballard Estate.
Sassoon, E. D., & Co., Ltd.—E. D. Sassoon Building, Dougall Road, Ballard Estate.
Adamji & Co.—141, Tank Street, Bombay 8.
Adamji Lookmanji & Co.—Rahimtoola House, Homji Street, Fort, Bombay 1.
Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort, Bombay 1.
Bajaj Brothers Ltd.—Round Building, Kalbadevi Road, Bombay 2.
Brady, W. H. & Co., Ltd.—12, Nariman Road, Bombay 1.
Chunilal & Co.—100, Old Hanuman Lane, Bombay 2.
Hardacre & Co., J.—Himalaya House, Palton Road, Bombay 1.
Jashwantlal Maneklal & Co.—4, Cohurchgate Street, Fort, Bombay 1.
Jehangir J. M. Poonjiajee.—Sir Phirozshah Mehta Road, Fort, Bombay 1.
Kotak & Co.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Kotecha & Co.—Commissariat Building, 231, D. Naoroji Road, Fort, Bombay 1.
Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.
Sapt Textile Products (India) Private Ltd.—Sapt Building, Graham Road, Ballard Estate.
Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.

COUNTING INSTRUMENTS



DIAL & THERMOMETERS

Dial Thermometers, Industrial & Laboratory Glass Thermometers, Temperature Recorders, Pyrometers & Controllers, Thermostats, Temp. Crayons, Sling Psychrometers & Pressure Gauges.

KRISHNA INSTRUMENTS & APPLIANCES CO.

230, Arun Chambers, Tardeo Road, Next to Air
Conditioned Market, Bombay-34 WB. Telephone : 372213.

COUPLINGS

Standard Materials Agencies.—Podar Chambers, S. A. Brelvi Road, Bombay 1.

CRANES AND HOISTS

CONSOLIDATED ENGINEERING EQUIPMENT CO.—Union Co-operative Insurance Society Building, Sir Phirozshah Mehta Road, Bombay 1. Phone : 255333. Grams : "CONE-QUIP."

CROCKERY

Abkarally Ebrahimji Pharmacy & Department Store.—45, Veer Nariman Road, Fort, Bombay.
Bawa Crockerles Ltd.—89, Mohamedali Road, Bombay.

Bombay Potteries & Tile Ltd.—Pipe Road, Kurla, Bombay.

CRYSTAL HOUSE.—99C-D, Mohamedali Road, Bombay 3.
Phone: 327030. Dealers in Glassware, Crockery, Enamelware, Kitchenware, Cutlery, Plasticware, Thermos Flask, Presentation Articles, etc.

Moosa Omer & Co.—Junction of Mahomedally Road & Carnac Road.
Salemahomed Padamsee & Co.—141, Chakla Street, Bombay 3.

CROWN & PILFERPROOF CORKS & CAPS

BHARAT CROWN & METAL INDUSTRIES.—Chinchpokli Cross Lane, Behind India United Mill No. 5, Bombay 27.
Phone: 373239. Grams: "KROKORK." Manufacturers of Crown Corks.

KIV TRADING CO.—17, 1st Parsiwada, Khetwadi, Bombay 4.
Phone: 352180; Grams: "KIVGROOP". Manufacturers of Tin Containers, Screw Caps, Aluminium Sales, Pilfer Proof Caps, Anodised Novelties, Presentation Articles, Tin Seaming & Vial Closing Machines.

Parle Bottling Co. Private Ltd.—Western Express Highway, Chakala, Andheri (East), Bombay 69 (AS).

CRUCIBLE MANUFACTURERS & DEALERS

BOMBAY TOOLS & HARDWARE MART.—123, Narayan Dhuru Street, Bombay 3. Grams: "BOTAPS." Phone: 327122.

K. B. Gandhi & Co.—277, Sardar Vallabhbhai Patel Road, Bombay 4.

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phones: 323023 & 327058; Grams: "TENDERERS".

P. RATILAL & CO.—43, Dhanji Street, Bombay 3; Phone: 325980; Grams: "ETERNAL". Manufacturers of BLUE-STAR Graphite Crucibles, and Stockists of "MORGAN" and COLISIT German Crucibles.

REMEX CORPORATION

50/7, Tardeo Air-Conditioned Market,
Tardeo, Bombay-34.

Sole Distributors "SMELTO" brand carbon bonded Crucibles for Maharashtra, Madhya Pradesh, Mysore & Goa.

Also Graphite/Plumbago Powder, Pencil, Paint Drycell Graphite, etc.

Grams: "CRUCIGRAH" Phone: 374761

The Laxmi Trading Co.—274, Sardar Vallabhbhai Patel Road, Bombay 4.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay 1.

CRUDE DRUGS

Bombay Kiryana Industries.—204, Samuel Street, Vadgadi, Bombay 3.

Fruit Farm Products Co.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay-1. Phone: 262120.

CURIO DEALERS

Akbarally Ebrahimji Pharmacy & Department Store.—45 Veer Nariman Road, Fort, Bombay.

Carpets Palace.—Opp. Tajmahal Hotel, Merewether Road, Bombay 1.

Chinese Museum.—Radio House, Shivaji Maharaj Marg, Fort, Bombay 1.

"Decora" Raval Tiles & Marble Private Ltd.—Eden, 97-1, Queens Road.

Grand Bazar.—25, Colaba Causeway, Bombay 1.

Hotchand Motumal.—331, Hornby Road, Fort, Bombay 1.

Indian Art Museum (Regd.).—Carnac Bridge, Bombay 3.

Indian Arts Emporium.—Bombay Mutual Annexe, 2-C, Cawasji Patel Street, P.O. Box No. 1716, Fort, Bombay.

Kashmir Govt. Arts Emporium.—Co-op. Insurance Buleint, Sir P. M. Road, Bombay 1.

M. Daldas & Sons.—190, Princess Street.

Puraram, U. N.—Standard Building, 836, Hornby Road, Fort, Bombay 1.

Salemahomed Padamsee & Co.—141, S. Devji St., Bombay 3.

Sharda Stores.—104-106, Swadeshi Market, Kalbadevi Road.

CUTLERY MFRS. & MERCHANTS

Abdulkayum Esufally & Bros.—193, Abdul Rehman Street.

Akbarally Ebrahimji.—38/C, Cowasji Patel Street, Fort, Bombay 1.

Akbarally Ebrahimji Pharmacy & Department Store.—45 Veer Nariman Road, Fort, Bombay.

Bawa Crockeries, Ltd.—89, Mohamedali Road, Bombay 3.

Crystal House.—99C/D, Mohamedali Road, Bombay 3.

Dossa, S. R., & Co.—186, Sheriff Devji Street (Chakla), Bombay 3.

Esmail, M.—Esmail Building, Sutar Chawl, Bombay 2.

Escofally Rahimbhoy.—205, Cutlery Bazar, Bombay 3.

Grand Bazar.—25, Colaba Causeway, Bombay 1.

Haji Ahmed Mohamed & Co.—219, Cutlery Bazar.

Hamir Jamal & Co.—Showroom: 264, Charni Road, Bombay 4.

Jafferjee Kamrudin.—91-93, Bhusari Moholla, Bombay 3.

Jhaveri Bros. & Co.—345-49, Abdul Rehman Street.

Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort, Bombay 1.

Mahomadally Escofally Kaderbhoy Motiwala.—88, Sarang Street, Bhusari Mohalla, Bombay 3.

Manseta, N., & Bros.—165, Lohar Chawl, Fort, Bombay 1.

Mansukhlal Kantilal & Co.—185, Mulji Jetha Building, S. Gandhi Marg, Bombay 2.

Matani Bros.—84, Mohamedali Road, Bombay 3.

Mohamedally Abdullaly.—75-77, Bhusari Moholla, Bombay 3.

Moosa Essa & Co.—Corner, Kalbadevi Road, 6, Maniar Building,

Pydhowrie Tram Junction, Bombay 3.

New India General Stores.—27, N. Master Road, Bombay 1.

PEARL METAL WORKS.—20, Wadi Bunder Road, Mazagaon,

Bombay 10; Phone: 373880; Grams: "PEARLWORKS".

Manufacturers and Exporters of "PEARL" Brand Stainless

Steel Kitchen, Hospital, Canteen Wares and Cutlery.

Punjab Metals.—20, Wadi Bunder Road, Mazagon, Bombay 10.

Salemahomed Padamsee & Co.—141, Chukla Street, Bombay 3.

Sanghani & Co.—180, Abdul Rehman Street.

S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 3.

Shivji, K. S., & Co.—144-46, Sheriff Devji Street, Bombay 3.

CYCLES AND CYCLE ACCESSORIES MFRS., DEALERS & IMPORTERS

A. M. Daisy & Co.—157, S. Gandhi Marg, Bombay 2.

Advance Trading Corporation.—Hathi Building, Bhangwadi, Kalbadevi Road, Bombay 2.

Agarwal Traders.—Vasantwadi, Bombay 2.

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road,

Fort, Bombay.

Allied Industries Producers.—Orient Hotel Building, opp. Crawford

Market, Fort.

Ashok Overseas Trading Co. Ltd.—543, Kalbadevi Road, Bombay 2.

Bharat Commercial Co. of Lahore.—103/4, Meadows Street, Bombay 1.

Bharat Cycle Co.—Bharucha Bldg., S. Gandhi Marg, Bombay 2.

Bharat Cycle Importing Co.—444, Kalbadevi Road, Bombay 2.

Bharat Motor Co.—298, Vithalbhai Patel Road, Bombay.

Bombay & Calcutta Cycle Co.—413-G, Vasantwadi, Kalbadevi

Road, Bombay 2.

Bombay Cycle & Motor Co.—451, Kalbadevi Road, Bombay 2.

Bombay Cycle Trading Co.—184, S. Gandhi Marg, Bombay 2.

Bombay Electric & Cycle Co.—Bombay 2.

B. Parekh & Co.—H.O.: 383, Kalbadevi Road, Bombay.

Capital Cycle & Motor Co.—445-51, Kalbadevi Road, Bombay 2.

Cycle Trading Co.—425, Kalbadevi Road, Bombay 2.

Phone: 314588.

Grams:

"GUPTACYCLE."



GUPTA

CYCLE COMPANY,

172, Princess Street, Bombay No. 2 BR.

Export & Import Merchants

Manufacturers' accredited Dealers for India Hercules, Phillips-B.S.A., Raleigh, Humber, Robinhood, Atlas, Eastern Star Cycles and Dunlop Goodyear, National Rubber Tyres & Tubes.

And also leading EXPORT HOUSE in CYCLES,
CYCLE SPARE PARTS & ACCESSORIES

well represented in Middle East, South East Asia and East and West Africa.

Hind Cycles Ltd.—Factory: 250, Worli, Bombay 18.

Hind Rubber & Cycle Co.—Kalbadevi Road, Bombay 2.

IMANES PRIVATE LIMITED.—94, S. V. Road, Eral, P.O. Box 8002, Bombay 56 (AS); Phone: 571634; Grams: "IMANESCOL". Springs & Forms out of Spring Wires and Strips for your Industry.

Imperial Cycle & Motor Co.—Vasant Vadi, Kalbadevi Road, Bombay 2.

Jankidas & Co.—192, S. Gandhi Marg, Bombay 2.

Kantilal & Company.—Broach Building, S. Gandhi Marg, Bombay No. 2.

K. B. MODI & CO.—8, Ebrahim Mansion, 366/68, Kalbadevi Road, Bombay 2. Phone: 315038. Grams: "CYCLEBELL". Importers of cycles, motor cycles & accessories. E. O. Ahmedabad.

Kusumgar (Overseas) Private Ltd.—503, Kalbadevi Road, Bombay 2.

Mahendrakumar Ltd.—Saraf Mansion, S. Gandhi Marg, Bombay 2.

Metro Cycle Co.—421, Kalbadevi Road, Kalbadevi Road, Bombay 2.

Modern Cycle Stores.—435, Kalbadevi Road, Bombay 2.

Mohan & Bros., G.—Hassan Chambers, Parsee Bazar Street, Fort, Bombay 1.

Mohanlal Motilal—Yusuf Building, Hornby Road, Bombay 1.

Narendraroy & Company.—453, Kalbadevi Road, Bombay 2.

National Electric Corporation.—Kerawala Bldg., Lohar Chawl, Bombay 2.

National Manufacturing Co.—105, Bazargate Street, Fort, Bombay 1.

National Traders.—345, Kalbadevi Road, Bombay 2.

Nishat Trading Co.—461, S. V. P. Road, Bombay.

Contact :

NOBLE CYCLE & MOTOR CO.

225, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

Authorised Dealers :

Raleigh, Hercules and Hind Group Cycles.

Cycles also supplied under easy payments by instalments scheme.

Our Speciality : Free Service after Sales. Genuine Parts.

NOBEL CYCLE & MOTOR CO.—225, Dr. D. Naoroji Road, Bombay 1; Phone 263774; Grams: "NOBLECYCLE". Dealers in Raleigh, Hercules, Hind Groups, Parts & Accessories.

Oriental Import Export Co.—441, Kalbadevi Road, Bombay 2.

Popular Cycle Co.—415, Kalbadevi Road, Bombay 2.

Prem Brothers.—Kitab Mahal, 192, Hornby Road, Fort, Bombay.

PREMIER RUBBER & CABLE INDUSTRIES.—Jamal Building, 211, Nagdevi Street, Bombay-3. Phone: 326551. Grams: "RUBBERGOODS." Manufacturers of Premier Cycle & Rickshaw Tyres, Tubes and Rubber Solution.

Primera Corporation.—207, Sir Vithaldas Street, Fort, Bombay 1.

Punjab Motor Co.—342-48, Vithalbhai Patel Road, Bombay.

Ranjan Cycle Importing Co.—445, Kalbadevi Road, Bombay 2.

Rapid Cycle & Motor Co., Ltd.—Opp. Edward Theatre, Bombay 2.

Royal Cycle & Motor Co.—Whiteaway Laidlaw Bldg., Hornby Road, Bombay 1.

Saurashtra Cycle Co.—Bombay 2.

Shah Cycle Importing Co.—Vasantwadi, Kalbadevi Road, Bombay 2.

SEAH INDUSTRIES.—8, Ebrahim Mansion, 366/68, Kalbadevi Road, Bombay 2. Phone: 315038. Grams: "CYCLEBELL." Manufacturers of 'DIMOND' brand Cycles and Rickshaws, Spokes, Nipples, Washers and Steel Balls.

Shah Trading Co. Ltd.—157, Princess Street, Bombay 2.

Sorabji D. Daruwalla.—Round Building, Kalbadevi Road. Phone: 30348.

Standard Cycle Co.—429, Kalbadevi Road, Bombay 2.

S. S. Corporation.—Kerawala Bldg., Lohar Chawl, Bombay 2.

TODI INDUSTRIES PRIVATE LTD.—Lower Parel, Bombay 13; Phone: 371336; Grams: "OFFER"; Manufacturers of Cycle Tubes "NEWTON" and "YOKOHAMA".

Union Cycle Co.—429, Kalbadevi Road, Bombay 2.

V. S. Brothers & Co. Ltd.—Bhangwadi, Kalbadevi Road, Bombay 2.

DAIRY COMPANIES

Baker's Dairy Farm.—Rusikesh Bhuvan, Gell Street, Jacob Circle.

CHAMPION DAIRY COMPANY (Estd. 1903).—New Petit Mansion, Sleater Road, Grant Road, Bombay 7; Phones: 373383 & 378845. Dealers & Manufacturers of Milk Powder, Cream, Butter and Milk Products.

Clifton Dairy.—288, Frere Road, Fort, Bombay 1.

Empress of India Dairy Co.—180, Lamington Road.

Hiscocks, E., & Co.—"Win-Villa," 9, Clare Road, Byculla.

Indian Express Dairy.—49, Hapur Mansion, Hughes Road.

Infants & Public Milk Supply Co.—11, Calicut Street, Ballard Pier.

Palmer, A., & Co.—C-123, Cumballa Hill.

Parisian Dairy Co.—1, Tamarind Lane, Fort, Bombay 1.

PARSI DAIRY FARM.—Head Office: 261/63, Princess Street, Bombay 2. Phone: 313633-34. Branches: 1. Lalbaug; 2. Poibavdi; 3. Dadar. Dealers & Mfrs., Milk, Dairy Products & Sweetmeats.

Rezashah Dairy Farm, The.—Dubash Building, Sleater Road, Grant Road.

Sarosh Dairy Farm.—Chandavarkar Road, Borivli, Bombay 92.

Shapur Dairy Farm.—Mount Road, Opp. P.O., Mazagaon.

Victor Supply Co.—Taher Mansion, Nepean Sea Road.

Wiltshire Dairy Farm.—"Win-Villa," 23, Clare Road, Byculla.

DAIRY MACHINERY

Imanes Private Limited.—94, S. V. Road, P. O. Box 8002, Bombay 56 AS. Tel. 571634. Grams: "IMANESCOL". Springs and Forms out of Springs Wires and Strips for your Industry.

Raj-Der-Kar & Co.—Commissariat Building, Hornby Road, Fort, Bombay 1.

DAIRY MACHINERY (IMPORTERS)

TURNER, HOARE & COMPANY LIMITED.—Head Office: Wavell House, 15, Graham Road, Ballard Estate, Bombay 1. Phone: 262711 (8 lines). Cable: "ENDEAVOUR". Code: ACME & BENTLEY'S. TELEX 2282. Offices: Delhi, Calcutta, & Madras.

DAMP COURSING

Gladstone Lyall & Co., Ltd.—21, Lansdowne Road, Appollo Bunder, Bombay 1.

DEAF APPLIANCES

General Radio & Appliances Ltd.—Opera House, Bombay.

Modern Electric Corporation.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Westrex Co., India.—Metro House, Mahatma Gandhi Road, Bombay 1.

DECORATORS (INTERIOR)

BHARAT FURNITURE WORKS (ESTD. 1921).—Swadeshi Mills Estate, 78, Girgaum, Bombay 4. Phone: 356949. Manufacturers and Suppliers of household Office Fittings, Furniture, etc. Specialists in designing, Furnishing & Interior Decorating in the latest styles of Office, Commercial and other special purposes.

Bhawsar Home Furnishers & Decorators.—66, Karwar Street, Mint Road, near G.P.O., Fort, Bombay.

Cooper & Co.—53, Abdul Rehman Street.

Davar, N., & Co.—Syndicate Bank Building, Sir Phirozshah Mehta Road, Fort, Bombay.

Inverfun.—Interior Decorators and Furniture Manufacturers, 361, Dr. Dadabhai Naoroji Road, Fort.

Kalabhai Karson & Sons.—256, S. V. P. Road.

Kantilal Karia & Co.—Furnishers & Interior Decorators, Chowpatty View, Chowpatty, Bombay 7. Phone: 352272.

Khanna & Company, S.—Mustafa Building, Sir Phirozshah Mehta Road, Fort, Bombay.

La "Decors" (India) 1958.—Dahanukar Building, 480, Kalbadevi Road, Bombay 2.

McKenzie, Ltd.—Interior Decorators, Sewri.

Mistry Ebrahim Suleman & Co.—116, Esmail Curtay Road, Bombay 3.

New Era Paint Works.—Opp. Byculla Station, Byculla.

NOORMOHAMEDS.—House of Fine Furniture—(Estd. 1885). 109/A-111/B, Mohamedally Road, Bombay 3. Phone: 325124. Grams: "NOORDECOR." Furnishers—Cabinet Makers & Interior Decorators, Importers & Exporters. Branch at Mahim Causeway.

Premier Furnishing & Decorating Ltd.—7, Brabourne Stadium, Churchgate Street Extension, Fort.

REMEX CORPORATION

50/7, Tardeo Air-Conditioned Market, Tardeo, Bombay-34.

All types of Designings, Furnishing & Interior Decoration as per latest styles and Customer's requirements.

Specialists in Office Furniture & False Ceiling.
Grams: 'CRUCIGRAH' Phone: 374761

Roberts, John & Co., Ltd.—Jorawar Bhuvan, 93/B, Queen's Road.
Simplex Art Floorings Ltd.—"La-Citadelle," 32, Queen's Road.
Wood-Worths.—Commerce Centre, Tardeo, Bombay 34 (W.B.).

DECORATORS & CONTRACTORS (MANDAP, FURNITURE, CARPETS ETC.)

Pavri & Sons, Framroz Hormusji.—Pavri House, Gunbow Street, Fort, Bombay.

DENTAL GOODS

Associated Dental & Medical Supply Co.—26, Yusuf Bldg., Mahatma Gandhi Road, Opp. Flora Fountain, Fort, Bombay.

Bharat Dental Supply Co.—Standard Building, 346, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.

Dental Corporation of India.—121, M. G. Road, Fort.

J. L. Morrison Son & Jones (India) Ltd.—Contractor Bldg., Nicol Road, Ballard Estate, Bombay 1.

KOTHARI TRADING CORPORATION.—Evans Fraser Annexe, 38, Police Court Lane, Bombay 1. Phone: 261692. Wholesale and Retail Distributors for every kind of Dental and Surgical Goods.

DR. K. PATEL & SONS.—Eruchshaw Building, 249, Dadabhai Naoroji Road, Fort, Bombay 1 (BR). Phone: 263762. Direct Importers of Dental Equipment & Sundries. Branch at: Uttam Niwas, 5-4-32/1A, Jawaharlal Nehru Road, Hyderabad 1 (AP). Phone: 45612.

Mazda Dental Depot.—Navsari Chambers, Outram Road, opp. Lloyds Bank, Fort, Bombay 1.

Rawal Shankerlal & Co.—Esplanade High School Building, 1st Floor, 160, Hornby Road, Fort, Bombay 1.

TODI & CO.—Tulsipie Road, Lower Parel, Bombay 13; Phone: 374568; Grams: "OFFER". Manufacturers of "Dawn" Nylon Engine Cord for Dental Engines.

DIALS

EXCEL PROCESS PVT. LTD.—Leading Manufacturers of Anodised Aluminium Labels, Advertising Gifts, Scales, Dials, Badges, Decorative Radio Trimmings & Panels, Identity Cards & Photographs in exclusive finishes; City Office: 22-D, Parsee Bazar Street, Bombay 1; Phones: 259181 and 573327.

DIAL THERMOMETERS**COUNTING INSTRUMENTS**

Stroke, Revolution Counters, Time Totalizers Road Measuring Counters, Predetermined Counters, Bottle Counters, Hand Counters, Impulse Counters Tachometers etc.

KRISHNA INSTRUMENTS & APPLIANCES CO.

230, Arun Chambers, Tardeo Road, Next to Air-Conditioned Market, Bombay-34 WB. Telephone: 372213.

DIAMOND DRESSING TOOLS

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS." Phone: 323193. Stockists of Elephant Brand Chain Pulley Blocks.

HEMANT TOOLS TRADING CO.—33, Bibijan Street, (Barbhai Mohalla), Bombay-3. Grams: "LACING." Phone: 321174. Importers & Stockists of Garage Tools, Fibre Sheets, Rods, Diamond Dressing Tools, Precision Tools etc.

Jairamdas & Sons.—163, Narain Dhuru Street, Bombay 3.

STAR DIAMOND TOOLS

60, Sir P.M. Road, Bombay-1.

Manufacturers of diamond dressers, special tools, diamond powder and paste etc.

Re-setting service undertaken

Phone: Office: 265051. Factory: 551997.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Bombay 1.

DIAMOND, PRECIOUS STONE AND PEARL MERCHANTS

Abdul Kayum Ebrahim Jhaveri & Co. (Estd. 1902).—Mama Chambers, 93, Cumballa Hill Road, Bombay 26.

Anandlal Becharial & Co.—177-119, Sheikh Memon Street.

Becharadas Harichand & Co.—Poonamchand House, Kharakva, Marwari Bazar.

Bhogilal Leherchand.—134-136, Zaveri Bazar, Bombay 2.

Bhojwani Brothers.—Nanik Niwas, B. Desai Road, Bombay 26.

Chimanlal Manchand & Co.—Queen's Road, Bombay 4.

Chandulal T. Shah.—59, L. K. Market Bldg., 156, Zaveri Bazar, Bombay 2.

CHIDA KASHI.—Trusted name for Gems & Jewellery. Brightlands, Lansdowne Road, Near Regal Cinema, Bombay-1. Phone: 214109.

CHUNILAL & COMPANY.—Appointed Valuers by the Govt. of India. Buyers & Sellers of Jewellery, Diamonds, Rubies, Emeralds, Precious Stones & Pearls. 17, Dhanji Street, Opp. Pydhonie Taxi Stand, Bombay 3; Phone: 326991; Res.: Mr. Vora 357660; Parekh 317036.

Culture Pearls Dealing Co.—148, Mumbadevi Road, Bombay 2.

DAHVALAL MAKANJEE ZAVERI.—Precious Stones, Diamonds, Pearls and manufacturing Jewellers; also authorised valuers under the Estate Duty Act. 98, Sheikh Memon Street, Bombay 2. Phone: 313218. Grams: "JAYKUBER."

Dalchharam Nanchand & Co.—7, Dhanji Street.

Dhannamal Isardas.—Mulji Secca Building, China Baug, Vithalbhai Patel Road.

Fulchand Kasturchand.—163-165, Sheikh Memon Street.

Gazdar Ltd. (Jewellers).—Taj Mahal Hotel, Colaba.

Godedji Dosji & Co.—10, Dhanji Street.

Harilal Lalji & Co.—149, Sheikh Memon Street, Bombay 2.

Hemchand Mohanlal & Co.—Devki Bhuvan, Dhanji Street, Bombay 3.

Jhaveri Bros. & Co.—15, N. Master Road, Fort, Bombay 1.

Keshavlal Dalpatbhai Zaveri.—Mumbadevi, Zaveri Bazar, Bombay 2.

K. Wadia & Co.—324, London Hotel, M. Shaunkatali Road, Bombay 7.

Lallubhai Gulabchand Jhaveri.—149, Shroff Bazar.

Maganbhai & Lallubhai.—184, Sheikh Memon Street, Bombay 2.

Nagindas Virchand Jhaveri.—44, Dhanji Street, Bombay 3.

Narotamdas Bhau (Estd. 1864).—Lamington Road, Bombay.

New Pearls Trading Agency.—Patel Building, 76-A, Sheikh Memon Street, Zaveri Bazar.

PITAMBERDAS MOHANLAL & SONS

Precious Stones & Gems Merchants,
4, Mandlik Road, Bombay 1.

Grams: "GEMLEADER" Phone: 212276

Exporters of all kinds of Cut & Rough Precious & semi precious stones.

Punemchand Ghasilal.—128, Javeri Bazar, Bombay 2.

Puraram, R. V.—Manufacturing Jewellers, Diamond and Pearl Merchants, 62, Medows Street, Fort. Phone: 24645. Grams: "FAIRVALUE."

Roopchand Jewellers.—Sandhurst Bridge, Bombay 4.

Ruby & Co.—Cutch Castle, opp. Opera House.

Surajmal Lallubhai & Co.—859, Kalbadevi Road.

DIAPHRAGMS

Evershine Industries.—472, Sardar Patel Road, Bombay 4 (BR).

DIE CASTING

Auto-Parts Die-Casting Industries Private Ltd.—H.O.: 82-84, Zaveri Bazar, Bombay 2. Factory, 114a, Pokhran Road, Thana.

DIES & JIGS

"Arifra".—Die & Tool Engineers, Jai Mahal Estate, Lower Chawl, Bombay 2.

KIV GROUP INDUSTRIES.—Manufacturers of Combination Dies & Jigs to close accuracy. Fabricators of Precision Metal Machine Parts to Customers Drawing, etc. Sun Mill Compound, Lower Parel, Bombay 13; Phone: 375103; Grams: "KIVGROOP".

DIESEL ENGINES & SPARES

AGRA ENGINEERING CO.—40, Bank Street, Fort, Bombay 1. Phone: Office: 256541; Res.: 532906. Grams: "RAJSPARES." Manufacturers of Diesel & Automobiles Spare Parts, "ARROW" & "DISPA" Liners & Pistons for Diesel Engines "MG" Pistons for Cars, Trucks, Commercial Vehicles, Motor Cycles, Scooters & Tractors.

ARJANSINGH KHEMCHAND.—1st Floor, 118, Commerce House, Medows Street, Bombay 1; Phone: 258542; Grams: "ENGEDEALER". Stockists of Kirloskar Diesel Engines, Pumps, Electric Motors and also Manufacturers of Domestic, Agricultural and Chemical Pumps.

APOLLO INDUSTRIAL CORPORATION.—2nd Floor, Jeevan Vihar, 75, Apollo Street, Bombay-1. Associates: Banson Auto Corpn., Korani Trading Co., Sonani Industrial Corpn., Manufacturers: Diesel Engine Spares, Fuel Injection Tubings, Fuel Oil Filters and M. S. Tubes in various gauges. Phone: 254180; Grams: "HORSEPOWER".

AUTOMOBILES & ENGINEERING WORKS

59, Forbes Street, Bombay-1.

Manufacturers of:

Fuel Oil Filters, Air Cleaners, Exhaust Silencer, Fuel Tanks, Lubricating Strainers, Diesel Strainers, Gear Covers and also other Metal Products.

Grams: 'FULFAGRS' Phone: 254255 Office.
593226 Factory.

Crescent Agencies (Private) Ltd.—Beaumont Chambers, N. Master Road, Fort Bombay 1.
Deelipkumar & Co.—313, Commerce House, 3rd Floor, N. Master Road, Bombay 1.

ECHJAY INDUSTRIES PRIVATE LTD.—Office & Factory: Kanjur Village Road, Bhandup, Bombay-78. Phones: 581211 & 581212. Grams: "ECHJAY." Bhandup. Manufacturers of Accessories & Equipments for Machine Tools, General Steel Drop & Upset Forgings-including Forged Flanges; Forged Parts of Diesel Engines & Automobiles; Forged Hand Tools: Hand Hammers, Chisels & Punches, Spanners, Pliers, Jigs & Fixtures, Press Tools, Dies & Punches.

ELVE BUSINESS CONTACTS CORPORATION.—Elve Chamber, Green Street, Fort, Bombay 1. Phones: 252088 & 254655. Grams: "ELBUSCON." Importers and Dealers in Spare Parts for Diesel Engines, Tractors and Automobiles.

EVEREST ENGINEERING CORPORATION.—12, Hornby View Building, Gunbow Street, Fort, Bombay 1. Phone: 261691. Grams: "EXPOCORP." Specialists in Diesel Engines & Spares, Fuel Injection Equipment, Electric Motors, Small Engineering Tools, Workshops Machinery, Graphite Crucibles, Ball & Roller Bearings, Steel Shafting, Circlips, etc. (Allied concern of Messrs. Khimandas Jagumal & Sons.)
George Oakes Private Ltd.—Swadeshi Mills Compound, M. P. Marg, Bombay 4.

Harry's Trading Co.—Commerce House, Medows Street, Bombay-1.
Hindustan Engineering Co.—(Machinery Dept.), "ABAN HOUSE", 25/31, Ropewalk Street, Fort, Bombay 1.

HONESTY TRADING CORPORATION.—Beaumont Chambers, Medows Street, Fort. Phone: 258119. Grams: "HOTRACO." Sole Agents for Spare Parts for Hercules Diesel Engines fitted to Cletrae Tractors and other machineries.

IMANES PRIVATE LIMITED.—94, S. V. Road, Erla, P.O. Box 8002, Bombay 56 (AS); Phone: 521634; Grams: "IMANESCOL". Springs & Forms out of Spring Wire and strips for your industry.

Jaishri Manufacturing Corporation.—Motibai Bhuvan, 3-A, Proctor Road, Grant Road, Bombay 7.

Khimandas Jagumal & Sons.—12, Hornby View Building, Gunbow Street, Fort, Bombay 1.

Kumar Commercial Co.—Nadirshaw Sukhia Street, Opp. Cawasji Patel Street, G.P.O. Box No. 1525, Bombay 1.

MACHINERY SALES CORPORATION.—Bassam House, 11, Military Square Lane, Fort, Bombay 1; Grams: "ENGES-PARES." Phone: 254480; Stockists of Imported Spare Parts for Diesel Engines, Tractors, Road-Rollers, Air Compressor & Rock Drills.

Naren Kumar Machinery Co.—Oak Chambers, Okhla St., Bombay-1.
Sigil (India) Services Private Ltd.—Ismail Building, 381, Dr. Dadabhai Naoroji Road, Bombay-1.

Supreme Industrial Works.—196/K, Gaiwadi, Girgaum, Bombay 4.

TURNER, HOARE & COMPANY LIMITED.—Head Office: Wavell House, 15, Graham Road, Ballard Estate, Bombay 1. Phone: 262711 (8 lines); Cable: "ENDEAVOUR". Code: ACME & BENTLEY'S. TELEX: 2282; Offices: Delhi, Calcutta, & Madras,
Voltas Ltd.—Strand House, Graham Road, Ballard Estate, Bombay 1.

DIESEL ENGINES MANUFACTURERS, IMPORTERS & DEALERS

Batliboi & Company Private Limited.—Regd. Office: Forbes Street, P. Box 190A, Fort, Bombay 1 (BR). Phone: 259611 (6 lines). Grams: "BATLIBOICO." Tele.: 011-2284. City Branch: "BATLIBOI HOUSE", 59/61, Nagdevi Cross Lane, Bombay-3 (BR). Branches: Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, Indore, Jaipur, Kanpur, Ludhiana, Madras, New Delhi, Patna, Secunderabad, Vijayawada. Associate: Bangalore 2, Resident Representatives: Bhopal, Bhubaneswar, Raipur, Rajkot.

Bharat Electric and Engineering Corporation.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay.

British Engineering Co.—103, Apollo Street, Fort, Bombay 1.

Cooper Engineering Ltd.—Construction House, Ballard Estate, Bombay 1.

Drewet Chowna & Co.—Lentlin Chambers, Medows Street, Fort, Bombay 1.

Eastern Machinery and Trading Co.—Imperial Chambers, Wilson Road, Ballard Estate, Fort, Bombay 1.

Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

H.T.C. DIESEL ENGINES PRIVATE LTD.—Beaumont Chambers, Medows Street, Fort. Phones: 253534 and 252018. Grams: "HOTRACO." Manufacturers of H.T.C. Diesel Engines.

Indian Commercial Co., Ltd.—7, J. Tata Road, Bombay-1.

JAYEMS BEECHY CO. PRIVATE LTD.—Great Western Building, 1st floor, Apollo Street, Fort, Bombay-1. Phone: 255891. Grams: "JAYEMS." Works: Near Bhandup Station. Manufacturers of "NITU", "Russel Newberry" and "Clayes" Diesel Engines, Miracle Mills, Electric Motors, etc.

INDO UNIVERSAL ENGINEERING CO., PRIVATE LTD.—"Shantiniketan," 95-A, Marine Drive, Bombay 2. Post Box 1615, Bombay 1. Phones: 291235, 290668. Grams: "NEW-POWER." Agents: General Motors Detroit Diesel Industrial Engines, Diesel Marine Engines, Diesel Generating Sets, related spare Parts and Accessories—Enfield Marine & Industrial Diesel Engines & Spare Parts, Service after Sale.

Investa Machine Tools and Engineering Co., Ltd.—Ewart House, Bruce Street, Bombay 1.

Khala, R. T. & Co.—9, Forbes Street, Fort, Bombay.

Khimandas Jagumal & Sons (Estd. 1910), Sind.—12, Gunbow Street, Fort.

Killick, Nixon & Co. Private Ltd.—Killick House, Home Street, Bombay 1.

Mahindra & Mahindra Ltd.—Gateway Building, Apollo Street, Fort, Bombay 1.

Manohar Brothers.—4, Commerce House, Medows Street, Fort, Bombay.

Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Ballard Road, Bombay 1.

Paramount Industrial Stores.—15, Ropewalk Street, Bombay 1.

Power Machines Corporation.—31, Forbes Street, Fort, Bombay 1.

Protos Engineering Co., Ltd.—173, Jamshedji Tata Road, Churchgate, Bombay.

RUSTON & HORNSEY (INDIA) LTD.—1, Forbes Street, Bombay 1. Phone: 259171. Grams: "RUSTONIND." Manufacturers of Horizontal Diesel Engines, Vertical Water-Cooled and Air-Cooled Diesel Engines, Diesel Alternator Sets/Propellers and Sterngear, Deepwell Turbine Pumps and Centrifugal Pumps. Works: Chinchwad, Poona-19. Phone: 88231.

TELEX 224, "GREAVES PN"; Grams: "RUSTONIND". Chinchwad.

Singh & Singh.—Victoria Mills Estate, Gamdevi, Bombay 7.

Standard Spares & Machinery Co.—Bouna Casa, Sir Phirozshah Mehta Road, Fort, Bombay.

William Jacks & Co. Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay 1.

DIPENTINE & PINE OIL

PRABHAT GENERAL AGENCIES.—195, Kalbadevi Road, Bombay 2; Phones: 310359 (3 lines); Grams: "EXPANSION".

DISC SPRINGS

B. CHOWDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-3479. Grams: "BISUKHI." Sole Agents for: Adolf Schnorr, West Germany.

DISINFECTANTS AND INSECTICIDES MFRS.

Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort, Bombay.

All India Medical Corporation.—185, Princess Street, Bombay 2.
Amritlal & Co. Private Ltd.—Sprott Road, Ballard Estate, Fort,
Bombay 1.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort,
Bombay 1.

Bharat Pulverising Mills Private Ltd.—38/A, Sayani Road, Parel,
Bombay 28.

Bombay Chemicals Private Ltd.—Maneckji Wadia Bldg., 129,
Mahatma Gandhi Road, Fort, Bombay.

Burmah-Shell Oil Storage & Distributing Co. of India Ltd.—Ballard
Estate, Bombay 1.

Chimanlal Patel & Co.—Atlas Mills Compound, Reay Road,
Bombay-6.

Chlorogen Co.—170, New Agra Road, Bombay-70.

CIBA OF INDIA LIMITED.—Royal Insurance Building, 14,
Jamshejji Tata Road, Bombay-1. Phones: 295031-3; 296084-6.
Manufacturers and Importers of Pesticides for Plant Protec-
tion, Public Health and Veterinary use.

Din Products Ltd.—9-A, Ash Lane, Off Meadows Street, Fort,
Bombay 1.

Hardcastle, Waud & Co. Private Ltd.—Alice Building, Hornby
Road, Fort, Bombay 1.

Holmes Laboratory.—Upper Forjett Hill, Bombay 26.

Industrial Minerals & Chemical Co.—125, Narayan Dhuru Street,
Bombay 3.

Jones, J. D., & Co. (Bombay) Ltd.—Rustom Bldg., Veer Nariman
Road, Bombay 1.

Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home
Street, Fort, Bombay 1.

Pest Control (India) Private Ltd.—36, Yusuf Building, Mahatma
Gandhi Road, Fort, Bombay 1.

Sardesai Brothers Private Ltd.—Advent Gen. Bhonsle Marg,
Bombay-1.

Spencer & Co., Ltd.—Forjett Street, Bombay 26.

Standard Chemical & Pharmaceutical Co.—Atlas Mills, Reay Road,
Bombay 10.

TATA FISON INDUSTRIES LIMITED.—Registered Office,
Head Office and Spraying Service Section: Ralli House,
21, Ravelin Street, Bombay 1; Phones: 262936/77/83; Regional
Office: Union Bank Building, Dalal Street, Fort, Bombay 1;
Telegraphic Address: "TATFISON," Bombay; Phone:
259054/55; Manufacturers of Agricultural and Household
Pesticides, and Ethical Pharmaceutical Products; Distri-
butors in India, Rallis India Limited.

DOMESTIC ELECTRIC APPLIANCES

BAJAJ ELECTRICALS LTD.—45-47, Veer Nariman Road,
Bombay 1. Marketing Electrical Consumer Goods, Electrical
Engineers, Manufacturers and Contractors. Phone: 25-3841.
Grams: "SOFTLITE." Branches at: Bombay, Calcutta,
Delhi, Madras, Kanpur, Patna, Indore, Wardha, Gauhati,
Hyderabad, Jaipur, Jullunder & Bangalore.

Kantilal Keshavlal & Co.—80-82, Vithalwadi, Bombay 2.

LIGHT-HOUSE.—51, Kitchen Garden Lane, Shrijee Bhuvan,
Bombay 2. Phone: 311351. Grams: "GREATWALL".
Stockists of "Prestige" Pressure Cooker.

PRESSURE COOKERS & APPLIANCES PRIVATE LTD.—
United India Building, Sir Pherozeshah Mehta Road, Bombay
1. Telephones: 257291, 255541. Manufacturers and Sellers
of the Hawkins-Universal Pressure Cooker and other house-
hold appliances. PCA Opticals, a Division of Pressure
Cookers & Appliances Private Limited, manufacturers
optical instruments such as May Ophthalmoscope, May
Otoscope, Auriscope, E.N.T. Diagnostic Set, Brammer Head
Mirror, Berger Loupe and Retinoscopy Mirror.

DRAWING OFFICE & SURVEY REQUISITES

BOMBAY MISCELLANIES PRIVATE LTD.—Regd. Office at:
Khan Manzil, 28, Calicut Street, Fort, Bombay 1; Phone:
266523; Grams: "FEPRU". Manufacturers of TELEPHONE
Brand Ferro Ammonia, Semidry & Reproduction Tracing
Papers; Branches: Bangalore & Ahmedabad.—Also avail-
able PROMPT PRINT SERVICE on latest model German
Machine "OZAPRIMUS" at Bombay & Ahmedabad.

EASTERN INDUSTRIES.—Kasturchand Estate, Dr. M. V. Javle
Road, Bombay-28 DD. Manufacturers of Camera Brand
Ferro & Ammonia Papers, Tracing Papers, Reproduction
Papers, Liquor Ammonia & other Drawing Office Requisites.
Phone: 451578. Grams: "DIAZOPAPER."

Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road Estate,
Bombay.

Lawrence & Mayo (India) Ltd.—274, D. N. Road, Fort, Bombay 1.

Mercantile Stationery Mart.—248, Abdul Rehman Street, Bombay 3.

DRAWING MATERIAL DEALERS

Armstrong Smith Private Ltd.—Gresham Assurance House, Sir
Phirozshah Mehta Road, Fort.

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Papers; Branches: Bangalore & Ahmedabad. Also available
PROMPT PRINT SERVICE on latest model German
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Noble Stationery Mart.—Parsee Bazar Street, P.O. Box 1981,
Bombay 1.

S. Ramachandra & Co.—Office: Prospect Chambers Annexe,
Dr. Dababhoy Naoroji Road, Fort, Bombay.

DRILLS, TAPS & DIES

BHARAT ENGINEERING STORES.—113, Nagdevi Street,
Bombay 3. Grams: "UNIONTOOLS." Phone: 323193.
Stockists of Elephant Brand Chain Pulley Blocks.

Jairamdas Udyog Private Ltd.—Regd. Office: 157-159, Narayan
Dhuru Street, Bombay 3.

Jairamdas & Sons.—163, Narain Dhuru Street, Bombay 3.

DRUMS & CONTAINERS MFRS.

BOMBAY DRUMS MANUFACTURERS.—24, Calicut Street,
Safia Manzil, Fort, Bombay 1. Phone: 263042. Manufac-
turers of Drums & Cans for Dyes, Chemical Paste and
Liquids.

H. P. Modi & Co. (Estd. 1924).—Modi House, 177-79, Nagdevi Street,
Bombay 3.

Joshi Industrial Corporation.—116, "Giriraj", Iron Market, Sant
Tukaram Road, Carnac Bunder, Bombay 9.

K. T. KUBAL & CO. (PRIVATE) LTD. (Estd. 1926).—50, Foras
Road, Bombay 8.

Standard Drum & Bucket Factory.—232, Bellasis Road, Bombay 8.

Tayabi Bucket Factory.—174, Janjiker Street, Bombay 3.

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Grams: "MAGANMEWA" Phone C/o { 324796
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Phones: { 324796
327695 Grams: "WALNUT"

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Apex Enterprises.—17, 5th Floor, Mohatta Market, Palton Road,
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Imanes Private Limited.—94, S. V. Road, P. O. Box 8002, Bombay
56 AS. Phone: 571634, Grams: "IMANESCOL". Springs and
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Mohamedali Road, Shahrul Castle, Bombay 3. Phone: 323896.

DYEING, PRINTING & BLEACHING COMPANIES

ESSKAY DYEING & PRINTING WORKS

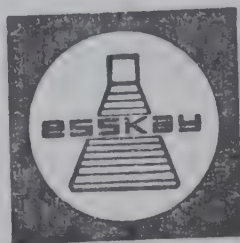
Office :

91, Shalimar, 'G' Road,
Marine Drive, Bombay-2.

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Bombay-68.

Associates of :

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Bombay 10.Prakash Dyeing, Bleaching & Printing Mills.—Mogal Lane, Matunga
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Khetwadi 12th Lane, Bombay No. 4.Vasudev Dyeing Works.—316, Dr. Cawasji Hormusji Street, opp.
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Vijay Printing Works.—Andheri Road, Kurla, Bombay.

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AMAR DYE-CHEM LTD.—(Manufacturers of Dyestuffs and Chemicals.) "Rang Udyan", Sitladevi Temple Road, Post Box No. 6471, Mahim, Bombay 16. Our production covers a wide range of groups (required by the textile, paper, leather, plastic, paint and printing ink industries) such as Amarthols, Fast Colour Bases, Basic and Acid Dyestuffs of the Triphenyl-Methane Series, Pigment Printing Emulsions, Dry Pigments, the Hot and Cold Brands Reactive Dyestuffs (manufactured for the first time in India) under the brand name Amaryls, a series of Optical Brighteners, Organic Peroxides for the Plastic Industry and also Intermediates required by the dyestuff, pharmaceutical and other industries.

Ameer Trading Corporation, Ltd.—Contractor Building, Nicol Road, Ballard Estate, Bombay.

AMRITLAL & CO. PRIVATE LTD.—"Rang Udyan," Sitladevi Temple Road, Mahim, Bombay 16. Phones: 453251 & 262291. Grams: "RASIK." Sole Agents in India. For Sojuzchimexport U.S.S.R. for Dyes, Intermediates and Chemicals.

Anglo-American Dyestuffs Corporation Ltd.—Prospect Chambers, Hornby Road, Fort, Bombay 1.

Aniline Dyes & Chemical Co. (Estd. 1922).—3, Gilder Lane, Lamington Road, Bombay 8.

Arlabs Private Ltd.—India House, Fort St., Bombay 1.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Asiatic Dyestuffs Agency.—306, Samuel Street, Vadgadi, Bombay 3.

AZOFEN LIMITED.—61, Apollo Street, Fort, Bombay. Phone: 316942; Manufacturers of 'SARCOSINE' 'LUMISOLS' (Optical Whitening Agents); Dyestuff Intermediate and "ADINOL T" (Textile Auxiliary).

Bharat Chemicals Co.—331, Samuel Street, Vadgadi, Bombay 1.
Bhavanidas Gangadas & Co.—235, Samuel Street, Vadgadi, Bombay-1.
Bhuta Brothers.—Co-op. Insurance Bldg., P. Mehta Road, Bombay-1.
Bock, F., & Co.—Shale Building, Bank Street, Fort, Bombay 1.

C. AGRAWAL & CO., PRIVATE LTD.—43-44, Lakshmi Building, Sir Phirozshah Mehta Road, Bombay 1. Phone: 265163 Grams: 'AGRAWALCO.' Importers & Stockists of Dyestuffs & Chemicals.

Chavannes & Co., Ltd.—Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1.

Chem Col Co.—15, Shree Ram Market, Bombay-3.

Chemols Supply Co.—Khorshed Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Chemical & Allied Products.—Near Basant Pictures, Kolwada, Borha Road, Chembur, Bombay 74; Phone: 521587.

CIBA OF INDIA LTD.—Royal Insurance Bldg., 14, Jamshedji Tata Road, Bombay 1. Phones: 295031-3; 295084-6.

COLOUR-CHEM LTD.—Fort House, 221, Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "PIGMENTDYE." Phones: 265151/5; 266417 and 266418.

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Phone: 376370



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TEXTILE AUXILIARIES

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Salem, Ludhiana, Proddatur, Shahapur
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Tele. Address : "DURGALAB", MANDVI.

Works: Tel. 572941 & 691374

Office: Tel. 321502

Dye-Chem Manufacturing Co. Private Ltd.—Navsari Chambers,
Outram Road, Fort, Bombay 1.

Fine Dyestuffs & Chemicals (India) Ltd.—61, Apollo Street, Fort,
Bombay.

Firoz Trading Co., Ltd.—Kamer Building, Cawasji Patel Street, Fort.

Fresh Dyes & Chemicals (India).—109D, Sion Industrial Estate
Bombay-22.

Gandhi Sons Ltd.—Gandhi Building, Samuel Street, Vadgadi,
Bombay 3.

HOOSEINBHAY A. LALLJEE SONS & CO.—Navsari Bldg.,
Dadabhoy Naoroji Road, Bombay 1. Phone: 262052. Grams:
"FLOWERMEAD." Importers: Dyestuffs, Chemicals and
Textile Auxiliaries.

INDIAN DYESTUFF INDUSTRIES LTD.—Mafatal House,
Backbay Reclamation, Bombay 20. Phone: 291199.
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Factory: Hardas Nagar, Agra Road, Thana.

Telegram: "GOLDYES". Phones: { Office: 212458
Factory: { 591660
592478

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DYES AND OIL SOLUBLE & FOOD COLOURS**
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For Quality Products

1. Harshion Reactive Dyes

Wide range of colours
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in dyeing and printing
of Cellulosic Fabrics



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349, Samuel Street, Vadgadi, Bombay 3.

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- INTRASOL COLOURS (Solubilised Vats)
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Phones: { Office: 32-4235
Factory: 52-2356 Grams: "INTRALABS"
Residence: 555218

Indokem Private Ltd.—221, Dadabhoy Naoroji Road, Fort, Bombay.
Industrial Dyes & Chemicals Ltd.—Sunder Chawl, M. J. Market,
Bombay-2.
Industrial Minerals and Chemicals Co.—125, Narayan Dhuru Street,
Bombay 3.

Jalkishindas Mohandas.—19, Siriram Market, Old Barden Gully,
Vadgadi, Bombay 3.

Javerchand Khimji Rangwala.—288, Samuel St., Bombay-3.

Khatau Valabhdas & Co.—Indian Globe Chambers, Fort Street,
Bombay 1.

Kerr, F. S., & Co., Ltd.—Maneckji Wadia Bldg., M. G. Road,
Bombay-1. Phone: 254172.

Madhavdas Manilal & Co. (Estd. 1923).—10, Sussex Road, near
Victoria Gardens, Bombay 27.

Manubhai Shah & Co.—297, Samuel Street, Vadgadi, Bombay 3.

Mistry & Co.—3, Gilder Lane, off Lamington Road, Bombay 8.

M. H. Mehta & Sons, Ltd.—Fort Chambers, Hamam Street, Fort,
Bombay 1.

Narayandas Jagjiwan & Co.—60, Garibdas Street, Vadgadi,
Bombay 3.

N. P. Patravali & Co.—Fort Chambers, Hamam Street, Fort.

Paramount Dyes & Chemicals Private Ltd.—Elphinstone Building,
Veer Nariman Road, Fort, Bombay.

P. D. Vora.—314, Samuel Street, Vadgadi, Bombay 3.

Pragjee Brothers.—Dholy Building, Vadgadi.

PIONEER TRADING CO.—210, Samuel Street, Bombay 3.
Phone: 324607. Grams: "CHEMITRADE." Dealers in Light
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Pravin Colour Co.—340-42, Samuel Street, Vadgadi, Bombay 3.

Pravin Brothers & Co.—Commerce House, 140, N. Master Road,
Bombay-1.

Ramdas & Co.—327, Samuel Street, Vadgadi, Bombay 3.

Rangoonwalla, H. N.—Rangoonwalla Building, 91, Mahomedally Road.

Sandos Products Ltd.—3, Wittet Road, Ballard Estate, Fort,
Bombay.

Sardesai & Company.—14, Murzban Road, Fort, Bombay.

Sepulchre Brothers (India) Ltd.—Taj Building, 210, D. N. Road.

Shoorji Vallabhdass Colour Co.—280, Samuel Street, Vadgadi.

Shree Krishna Dyes Corporation.—Office: Navsari Chambers, Outram
Road, Fort, Bombay 1.

Sky Bros. Private Ltd.—81, Annie Besant Road, Bombay 18.

Super Dyes & Chemical Co.—231, Samuel Street, Vadgadi,
Bombay 3.

Tejaji Farsaram Kharawala.—285, Samuel Street, Vadgadi,
Bombay 9.

Texdyes Corporation.—Manekji Wadia Building, 127, Mahatma
Gandhi Road, Fort, Bombay.

Textile Dye-Chem Corporation.—Vincent Court, 3rd Floor, Vincent
Road, Bombay 14.

Vinod Colour & Chemical Co.—11, Chakla Cross Lane.

Vora Trading Co.—357-A, Samuel Street, Vakil Bldg., Vadgadi,
Bombay 3.

Winsol Chemical Industries.—Winsol House, N. Vasanji Road,
Bombay-72.

ZENITH COLOUR TRADING CO.—316, Vadgadi, Bombay 3.
Phone: 324773. Grams: "ZENCOLOUR". Dealers, Manu-
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Drop & Upset Forgings—including Forged Flanges; Forged
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Hand Hammers, Chisels & Punches, Spanners, Pliers, Jigs
& Fixtures, Press Tools, Dies & Punch.

Gaytee & Co.—Jannabhum Chambers, Fort Street, Bombay 1.

Greaves Cotton & Co. Ltd.—Forbes Street, Bombay 1.

Gujarat Trading Syndicate.—India House (Opp. G.P.O.), Jeevan
Vima Marg, Bombay-1.

Imanes Private Limited.—94, S. V. Road, P. O. Box 8002, Bombay
56 AS. Phone: 571834. Grams: "IMANESCOL". Springs and
Forms out of Spring Wires and Strips for your Industry.

Killick, Nixon & Co. Private Ltd.—31, Murzban Road, Bombay 1.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard
Estate, Bombay 1.

ELECTRIC BREAKDOWN REPAIR SERVICE

Evans Electric Private Ltd.—Mahal Industrial Estate, Mahakali
Caves Road, Bombay-69.

ELECTRIC CONDUIT PIPES & ACCESSORIES

CHANDRODAYA ELECTRIC CO.—Bhangwadi, Kalbadevi Road, Bombay 2; Phone: 312519; Grams: "TRICYCLE"; Specialists in Pipes, Fittings, Wires & Switchgears. Stockists of Everything Electrical. Distributors for "C.T.L." Conduit Pipes, Dahisar.

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FINLAY, JAMES & CO. LTD.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Post Box No. 13, Bombay-1. Phone Nos.: 258355-59.

ELECTRIC FANS

Ahmed and Company.—69, Lohar Street, Bombay 2.
Anil Electric Co.—125, Vithalwadi, Bombay 2.

BAJAJ ELECTRICALS LIMITED.—45-47, Veer Nariman Road, Bombay 1. Marketing Electrical Consumer Goods, Electrical Engineers, Manufacturers and Contractors. Phone: 25-3841. Grams: "SOFTLITE." Branches at: Bombay, Calcutta, Delhi, Madras, Kanpur, Patna, Indore, Wardha, Gauhati, Hyderabad, Jaipur, Jullundur & Bangalore.

Radiant Electric & Machinery Co.—Sir Vithaldas Chambers, Bruce Street, Bombay 1.

ELECTRIC FLAME & EXPLOSION PROOF MATERIALS

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Hindustan Brown Boveri Limited.—Brown Boveri House, Dr. Annie Besant Road, Worli, Bombay 25.
Pioneer Equipment Co., Private Ltd.—139, Medows Street, Bombay 1.
Voltas Ltd.—Strand House, Graham Road, Ballard Estate.

ELECTRIC GOODS (IMPORTERS, STOCKISTS & DEALERS)

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Asiatic Electric Trading Co.—48, Lohar Chawl, Bombay 2.
Atlas Electric Co.—243, Bazar Gate Street, Bombay 1. Phone: 263159. Grams: "DEALWELL."
B. Maniar & Co.—9, Pathak Wadi, Mani Bhavan, 2nd Floor, Lohar Chawl, Bombay 2.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

BOMBAY INSULATED CABLES & WIRES CO.

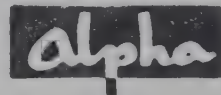
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Chandra Trading Co., P.—2, Bhajekar Street, Khetwadi Main Road, Bombay 4.
Chicago Telephone & Radio Co., Ltd.—127, Mahatma Gandhi Road, Fort.
Choksi Electric Co.—148 A, S. Gandhi Marg, Bombay-2.
Chunilal Desai & Co.—Gool Mansion, Homji Street, Fort, Bombay 1.
C. K. Shah & Co.—35, Vithaldas Road, Lohar Chawl, Bombay 2.
Economic Electric Co., Ltd.—Jail Road (East), Dongri, Bombay 9.
Electricals (India) Ltd.—24 B, Hamam Street, Fort, Bombay.
Empiria (India) Ltd.—Sai Bhuvan, S. Gandhi Marg, Bombay 2.
G. K. Trading Co.—Nawab Bldg., Dr. D. Naoroji Road, Bombay 1.
Great Eastern Trading Co.—107, Cawasji Patel Street, Fort, Bombay 1.
Harda Electric Supply Co., Ltd.—17-19, Bastion Road, Fort.
Hindustan Electric & Radio Corporation.—Mohatta Market, Palton Road, Bombay 1.
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Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort, Bombay 1.

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Raichand & Sons.—5, Picket Cross Road.
Regal Trading Co. (Bombay).—Rajababadur Bansilal Mansion, 11, Bruce Street, Fort, Bombay 1.
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Shivlal Shah & Co.—Mahakali Chawl, Pydhownie, Bombay 3.
Solar Electric Trading Co.—Survey 167, Old Salsette Track Road, Bombay 55.
Stork Electric Co.—6, Proctor Street, Grant Road, Bombay 7.
Sunshine Traders.—3, Stock Exchange New Building, Hamam Street, Fort, Bombay.
Sunil Electric Co.—Kanji Goculdas Building, 158, Lohar Chawl.
T. M. Tyabji & Bros.—32-38, Hamam House, Hamam Street, Fort, Bombay 1.
Trade (India) Corporation.—Resham Building, Mohamadali Road, P.O. Box No. 3231, Bombay 3.
Venus Electric Co.—Keravala Building, Mangaldas Road, Bombay 2.
Westrex Co., India.—Metro House, Mahatma Gandhi Road, Bombay 1.

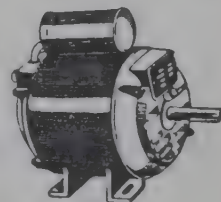
ELECTRIC LAMPS (BULBS) MANUFACTURERS

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Bijlee Products (I) Private Ltd.—(Estd. 1935), 36, Lamington Road, Bombay 8.
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Associated Machine & Tool Co.—130, Medows Street, Fort, Bombay.
Batliboi & Company Private Limited.—Regd. Office: Forbes Street, P. Box 190A, Fort, Bombay-1 (BR). Phones: 259611 (6 lines). Grams: "BATLIBOICO". Tele.: 011-2284. City Branch: BATLIBOI HOUSE, 59/61, Nagdevi Cross Lane, Bombay-3 (BR). Branches: Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, Indore, Jaipur, Kanpur, Ludhiana, Madras, New Delhi, Patna, Secunderabad, Vijayawada. Associate: Bangalore 2. Resident Representatives: Bhopal, Bhubaneswar, Raipur, Rajkot.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Bharat Electric & Engineering Corporation.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay.

British Engineering Co.—105, Apollo Street, Fort.
Cassinath M. Bomonjee Eduljee—17, Bastion Road, Fort.
Crescent Agencies (Private) Ltd.—Beaumont Chambers, 27/33,
Medows Street, Fort, Bombay.

Elmot Engineering Co. Pvt. Ltd.

Manufacturers of:

D. C. Motors
Low Voltage High Current D.C. Motors
D.C. Generators
Battery Charging Generators
Ground Power Units
Dynamotors
Power Conversion Sets
Variable Speed Drives—Ward-Leonard
Controlled
A.C. Motors
Alternators
Petrol Generating Sets
Diesel Generating Sets
High Frequency Alternators
Auto-Synchronous Motors
A.C. Variable Speed Shunt Commutator
Motors

2, Udyog Nagar,
Swami Vivekananda Road,
Goregaon (West),
Bombay 62 (NB).

Grams: "ALTERNATOR", Bombay 62.
Phone: 693209

Eastern Electric & Refrigeration Co.—14, Hamam Street, Fort.
Eastern Trading & Engineering Co.—Alice Building, 4th Floor,
339, D. N. Road, Fort.
Economic Electric Co., Ltd.—Jail Road (East), Dongri, Bombay 9.
English Electric Co. of India Ltd.—Vulcan Insurance Building,
Nariman Road, Bombay-1.

ESSENTIAL ENGINEERING CO.—11, Botawala Building,
Elphinstone Circle, Fort. Phone: 318695. Grams: 'ES-
SENCE'. Importers, Exporters, Commission Agents and
Manufacturers' Representatives.

Field Engineering Co., Private Ltd.—65, Apollo Street, Fort,
Bombay.

General Radio & Appliances Private Ltd.—(Formerly Fazalbhoy
Ltd.).—Opera House, Bombay 4.

Harda Electric Supply Co., Ltd.—17/19, Bastion Road, Fort.

Hindustan Brown Boveri Limited.—Regd. & H. O., Brown Boveri
House, Dr. A. B. Road, Bombay-25.

Hindustan Engineering Co.—(Machinery Dept.), Aban House,
25-31, Ropewalk Street, Fort, Bombay 1.

Jacks, William, & Co., Ltd.—Hamilton House, Graham Road,
Ballard Estate, Fort.

Jyoti Calor-Emag Limited.—Advent, G. Bhonsle Marg, Bombay-20.

Khimandas Jagumal & Sons.—12, Hornby View Building, Gunbow
Street, Fort, Bombay 1.

Kiron Textile Industries.—Yusuf Bldg., Mahatma Gandhi Road,
Bombay 1. Phone: 253224. Grams: "YANTRAYUG". Manu-
facturers of Electric Switchgears upto 500 Amps., Switchboard
Panels and Electric Motor Starters, H. T. Gang Operated Switches,
etc.

MACHINES & MOTORS—1st Floor, 123, Mahatma Gandhi
Road, Bombay-1. Geared Motors, Speed Reducers, Motor-
ised Drive units. Telephone: 255974. Grams: "WELD-
TEKNIK".

Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder, Fort.
Manohar Bros.—Commerce House, N. Master Road, Bombay-1.

Marshall Sons & Co. (India) Ltd.—79, Dr. A. B. Road, Bombay-18.

Modi & Modi Co.—16, Hamam Street, Fort, Bombay.

Motor & Machinery Manufacturers Ltd.—336a, Kalbadevi Road,
Bombay-2.

NARHARI ENGINEERING WORKS.—480, Kalbadevi Road,
Bombay-2. Phone: Office: 312973. Factory: 573365. Mfgs.
of: "Power Master" Electric Motors & Pumps.

NATIONAL ELECTRICAL ENGINEERING CO.—19-21,
Hamam Street, Bombay 1. Grams: "DISCIPLINE." Phone:
250048. Distributors of "ELMOT" Electric Motors &
"S.E.W." Oil Loom Switch and D. C. Motors, Generating
Sets & Rotary Convertors.

National Electrical Industries, Ltd.—Lalbaug Industrial Estate,
Lalbaug, Bombay 12.

New Era Engineering Co.—128, N. Master Road, Bombay 1.

ORIENTAL ENGINEERING CO.—25, Forbes Street, Fort,
Bombay 1. Phone: 253057. Grams: "ADIVISHNU." Autho-
rised Dealers for "BROWN BOVERI", Electric Motors,
Motor Starters, Switches.

Paramount Industrial Stores.—15, Ropewalk Street, Bombay 1.

P. Rai & Co.—Commerce House, N. Master Road, Bombay-1.

Patel Electric Co., Ltd.—Vithal Sayana Building No. 2, Lohar
Chawl, Bombay 2.

Popular Electric Stores.—414, Harharwalla Building, Corner
Golpitha, Bombay 4.

Power Machines Corporation.—31, Forbes Street, Fort, Bombay 1.
Grams: "POWERMACO."

Protos Engineering Co. Ltd.—173, Jamshedji Tata Road, Church-
gate, Bombay.

Radiant Electric & Machinery Co.—Sir Vithaldas Chambers, Bruce
Street, Bombay 1.

Royal Machinery & Trading Co.—Tulip, 16th Road, Bombay-50.

R. S. Traders.—16, People's Insurance Building, Sir Pherozshah
Mehta Road, Fort.

Sigil (India) Services Private Ltd.—Ismail Building, 381, Dr. Dada-
bhoy Naoraji Road, P.O. Box 952, Bombay 1.

Talwarker Brothers Private Ltd., W. R.—Lentin Chambers, Dalal
Street, Fort, Bombay.

Thakar Brothers.—301/A, Commerce House, 140, Medows Street,
Fort, Bombay.

for "AG" brand CENTRIFUGAL SWITCHES

With Nylon & Bakelite Clutch & Silver
Contacts—Governor's Wings of Nickel
plated Brass—for single-phase Motors of 1/4
to 1 & 2 HP & Synchronous speeds of
1000/1500/3000 R.P.M.

Tested for over 22 lakh operations.
Now Manufactured in India

TRANSACTO

Devkaran Mansion, Block No. 6, 1st floor, Vithaldas
Road, Bombay 2. Cables: OTCASNART. Phone: 359710

TURNER, HOARE & COMPANY LIMITED.—Head Office:
Wavell House, 15, Graham Road, Ballard Estate, Bombay 1.
Phone: 262711 (8 lines). Cable: "ENDEAVOUR"; Code:
ACME & BENTLEY'S. TELEX: 2282; Offices: Delhi,
Calcutta & Madras.

United India Engineering Co.—6, Commerce House, N. Master Road,
Fort, Bombay.

Voltas Ltd.—Strand House, Graham Road, Ballard Estate, Bombay 1.

ELECTRIC MOTORS & DYNAMOS

JASHVANT C. SHAH & CO.—Bharati Nivas, Block No. 6, 1st
floor, Besant Road, Santa Cruz (West), Bombay-54. Phone:
359710 & C/o 317587. Grams: "OTCASNART".

ELECTRIC MOTOR STARTERS

ENLEC INTERPRISES.—Seksaria Chambers, 1st floor, 139,
Medows Street, Bombay-1. Phone: 251449. Stockists of
Motor Starters, Control Panels and Automatic Controls.

IMANES PRIVATE LIMITED.—94, S. V. Road, Eral, P.O.
Box 8002, Bombay 56 (AS). Phone: 571634. Grams:
"IMANESCOL". Springs & Forms out of Spring Wires and
Strips for your Industry.

Jyoti Calor-Emag Limited.—'Advent', 12A, Foreshore Road, Opp.
Sachivalaya, Bombay 1.

Larsen & Toubro Limited.—L and T House, Dougall Road, Ballard Estate, Bombay 1.

TURNER, HOARE & COMPANY LIMITED.—Head Office: Wavell House, 15, Graham Road, Ballard Estate, Bombay 1. Phone: 262711 (8 lines); Cable: "ENDEAVOUR"; Code: ACME & BENTLEY'S. TELEX: 2282; Offices: Delhi, Calcutta & Madras.

Voltas Ltd.—Strand House, Graham Road, Ballard Estate, Bombay 1.

ELECTRIC MOTORISED—GRINDERS & POLISHERS

TURNER HOARE & COMPANY LIMITED.—Head Office: Wavell House, 15, Graham Road, Ballard Estate, Bombay 1. Phone: 262711 (8 lines); Cable: "ENDEAVOUR"; Code: ACME & BENTLEY'S. TELEX: 2282; Offices: Delhi, Calcutta & Madras.

ELECTRIC SWITCHBOARD MFRS.

Jyoti Calor-Emag Limited.—Advent, G. Bhonsle Marg, Bombay-20.

K. P. ELECTRICALS PVT. LTD.—Office: 68A, Alli Chambers, Tamarind Lane, Bombay 1. Factory: Plot No. A125/126; Wagle Industrial Estate, Thana; Manufacturing of Switchgear Control Boards, Bus Bar Trunking, Fuse Boxes etc. Phone: Office: 256896; Factory: 593406.

ELECTRIC SWITCHGEARS MANUFACTURERS

ELECTRICAL ENGINEERING CO. OF INDIA.—Manufacturers of "NSDA" Electrical Switchgears & Meters. Office: Jay Mahal, 20-48, Lohar Chawl, Bombay 2; Phone: 319274; Grams: "ELECTLAMPS"; Factory: Bhandup, Bombay 28.

Hindustan Brown Boveri Limited.—Brown Boveri House, Dr. Ambedkar Road, Bombay-25.

Kiron Textile Industries.—Yusuf Bldg., Mahatma Gandhi Road, Bombay 1. Phone: 253224. Grams: "YANTRAYUG." Manufacturers of Electric Switchgears upto 500 Amps.: Switchboard Panels and Electric Motor Starters, H. T. Gang Operated Switches, etc.

NATIONAL SUPPLY & DISTRIBUTING AGENCY.—Manufacturers of: "NSDA" Brand Electrical Switchgears & Meters. Office: 10, Jay Mahal, 20-48, Lohar Chawl, Bombay 2; Phone: 319274. Grams: "ELECTLAMPS." Factory: Bhandup, Bombay-28.

Vertex Manufacturing Co. Ltd.—222, Sir Mathuradas Vissanji Road, Andheri (East), Bombay 69.

ELECTRIC THERMOSTATS

JASHVANT C. SHAH & CO.—Bharati Nivas, Block No. 6, 1st floor, Besant Road, Santacruz (West), Bombay-54. Phone: 359710 & C/o 317587. Grams: "OTCASNART".

ELECTRICAL ACCESSORIES

BAJAJ ELECTRICALS LIMITED.—45-47, Veer Nariman Road, Bombay 1. Marketing Electrical Consumer Goods, Electrical Engineers, Manufacturers & Contractors. Phone: 253841. Grams: "SOFTLITE." Branches at Bombay, Calcutta, Delhi, Madras, Kanpur, Patna, Indore, Wardha, Gauhati, Hyderabad, Jaipur, Jullunder and Bangalore.

U. K. AGENCIES.—2/16, Western India House, Sir Phirozshah Mehta Road, Bombay 1. Phone: 253195. Grams: "BEBELT." Agents for UKA Bakelite Accessories for electric wiring.

ELECTRICAL CONTRACTORS (LICENSED)

Arunodaya Engineering Corporation.—Navsari Chambers, Outram Road, Fort, Bombay 1.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

CHANDRAKIRAN.—Neon Signs Manufacturers, Electrical Dealers and Engineers & Government Electrical Contractors. Dhan-Nur, 4th Floor, Sir Phirozshah Mehta Road, Bombay 1. Phones: 263660 & 266428. Grams: "LITELORDS." Showroom: 88, Sion Circle, Bombay 22. Phone: 471606, 476588, 476923; Factory: 53, Ideal Industrial Estate, Mathurdas Mill Compound, Lower Parel, Bombay 13; Phone: 374042.

Damania Electrical & Engineering Works.—171, Lohar Street, Bombay 2.

ECONOMIC ELECTRIC CO. PRIVATE LTD., THE.—Kareem Manzil, Jail Road, Dongri, Bombay 9. Phone: 331137.

ELECTRIC CORPORATION OF INDIA.—19/21, Hamam Street, Fort, Bombay 1. Phone: 290615.

Gopani Electric Stores.—Bharat Bhuvan, 171, Princess Street, P. O. Box No. 2063, Bombay 2.

Greaves Cotton & Crompton Parkinson Ltd.—1, Forbes Street, Fort.

Harda Electric Supply Co. Ltd.—17, Bastion Road, Fort, Bombay.

Jostle Trading Corporation Private Ltd.—Maskati Mahal, Lohar Chawl, Bombay 2.

Kantilal Keshavlal & Co.—78, Vithalwadi, Bombay 2.

Minerva Trading Agency.—58, Forbes Street, Fort.

Modern Electric Co.—Dady House, 50, Veer Nariman Road, Fort, Bombay.

Modern Electrical Trade Syndicate.—182, Yusuf Meherally Road (Masjid Bunder Road), Bombay 3 (BR).

National Electric Company.—11, Horniman Circle, Fort, Bombay 1.

Pandit & Co.—15, Forbes Street, Fort, Bombay-1.

Rajgor Trading Co.—Dahanukar Building, 480, Kalbadevi Road, Bombay 2.

SUNSHINE ENGINEERING CORPORATION

50/7, Tardeo Air-Conditioned Market, Tardeo, Bombay-34.

We undertake Planning & Execution of all types of Electrical Installations for H.T./L.T. Sub-Stations, Overhead/Underground Systems, Factories, Commercial Buildings & Power Factor Corrections.

Trinity Electric Syndicate.—154, S. Gandhi Marg, Bombay-2.

Vikram Electric Co.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

Western India Engineering Corpn. Ltd.—Ali Chambers, Tamarind Street, Bombay-1.

ELECTRICAL ENGINEERS, MFRS. & DEALERS IN ELECTRIC GOODS

A.C.E.C. INDIA PRIVATE LTD.—96, Apollo Street, Bombay 1. Phone: 252311. Grams: "EDEMPLAIN," Bombay.

Acme Manufacturing Co., Ltd.—Construction House, Ballard Estate, Bombay 1.

ALLIANCE ELECTRIC MART.—67, Lohar Chawl, Bombay 2. Phone: 315229.

Alladin Virjee Nathani.—108, Government Industrial Estate, Bombay-67.

ALL-INDIA ELECTRICAL ENGINEERING CO.—Gopal Bhuvan, 199, Princess Street, Bombay-2 (BR). Telephone No. 315047. Grams: "LEATHEROID".

Arvind Trading Co. Private Ltd.—105, Apollo Street, Fort.

AMERICAN ELECTRIC & ENGINEERING CO.

Electrical Merchants.

11/12, Himalaya House, Palton Road, Bombay-1.

Phone: 263575.

Grams: "AMERICTRIC"

Asea Electric India, Private Limited.—Asea House, Goa Street, Bombay 1.

ASIATIC ELECTRICAL CORPORATION.—Beaumont Chambers, Ground Floor, Meadows Street, Bombay 1. Phone: 251761; Grams: "DHOOBTIJE." Direct Importers & Stockists of Everything Electrical. Specialists for German make Flame & Explosion Proof Fittings, Various Types of Cartridges, Fuses like DZ and TDZ, Motor Starters, O.C.B. and Wiring Materials.

Associated Electrical Industries (India), Ltd.—Indian Mercantile Chambers, Nicol Road, Ballard Estate.

ATLAS ELECTRICALS.—25, Mangaldas Road, Bombay-2. Phone: 315662. Grams: "ATARKEXCCEL." Stockists of every thing in Electricals.

Babcock & Wilcox, Ltd.—Karve Road Estate, Bombay 1.

BAJAJ ELECTRICALS LIMITED.—45-47, Veer Nariman Road, Bombay 1. Marketing Electrical Consumer Goods, Electrical Engineers, Manufacturers and Contractors. Phone: 25-3841. Grams: "SOFTLITE." Branches at Bombay, Calcutta, Delhi, Madras, Kanpur, Patna, Indore, Wardha, Gauhati, Hyderabad, Jaipur, Jullunder and Bangalore.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

B. B. ELECTRIC & AUTO STORES.—98, Princess Street, Bombay 2. Phone: 311795. Grams: "BIBIELECT."

B. CHOWDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone : 26-3479. Grams : "BISUKHI." Manufacturers of "MERKU-LITE" Brand High Pressure Mercury Vapour Lamps, Ballasts of all kinds for Mercury Lamps and Fluorescent Tubes. Fluorescent fixtures of all kinds, and street light fixtures are the specialties.

Bijlee Products (I) Private Ltd.—36, Lamington Road, Bombay 8.

BIPINKUMAR ELECTRIC CORPORATION.—14, Tavawalla Building, Lohar Chawl; Phone Nos. : 311684 & 312185; Grams : "BIPINDEV"; Sole Agents for : "VINOX CABLES"; VIR and CTS and Weather Proof and Super Deluxe Plastic Cables and Philco Resin Cored Solder Wires Lime Light Fluorescent Fixtures.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, 12, Vir Nariman Street, Fort.

British Electric Insulating Co.—33, Forbes Street, Fort.

British Engineering Co.—105, Apollo Street, Fort.

British Insulated Callender's Cable Ltd.—Elphinstone House, Waudby Road, Bombay-1.

Candy Filters (India), Ltd.—Forbes Building, Home Street, Fort.

CHANDRODAYA ELECTRIC CO.—Bhangwadi, Kalbadevi Road, Bombay-2. Phone : 312579. Grams : "TRICYCLE." Specialists in Pipes, Fittings, Wires & Switchgears. Stockists of Everything Electrical. Distributors for "C.T.L." Conduit Pipes, Dahisar.

Chicago Telephone & Radio Co., Ltd.—127, Mahatma Gandhi Road, Fort.

Chotani Electric & Engineering Co., Ltd.—57, Apollo Street, Fort, Bombay.

Damania Electrical & Engineering Works.—171, Hormusji St., Bombay-2.

DEVIDAYAL STAINLESS STEEL INDUSTRIES PRIVATE LTD.—Stamping Division, Manufacturers of Stampings and Lamination for Motors, Generators and Transformers. Factory & Office at Devidayal Nagar, Kanjur Village Road, Bhandup, Bombay 78; Phones : 582514-15-16.

Diamond Electric Company.—18, Hamam Street, Fort.

Dinshaw, M. H., & Co.—Apollo Street, Fort, P.O. Box No. 448, Bombay. Phone : 25-1458. Grams : "AHOORAT."

Dodsal Limited.—Mafatlal House, Backbay Reclamation, Bombay 1.

Eastern Electric & Engineering Co.—Established 1909. 127 Mahatma Gandhi Road, Fort, Post Box 459, Bombay.

Eastern Radio & Refrigeration Co.—Beaumont Chambers, N. Master Road, Fort, Bombay.

Economic Electric Co., Ltd., The.—Jail Road (East), Dongri, Bombay 9.

Electro Mechanicals, Ltd.—Mehta House, Apollo Street, Fort.

English Electric Co. of India Ltd., The.—Vulcan Insurance Building, Nariman Road, Bombay-1.

EXPRESS TRADING CO.—Sai Bhuvan, Ground Floor, 141, Princess Street, Bombay 2. Phone : 317638.

G. K. TRADING COMPANY.—Dealers in Everything Electricals, Industrial and Consumer items. Main Office : 46, Mohatta Market, Falton Road, Bombay-1. Phone : 263041. Sales Office : 61, Mangaldas Road, Lohar Chawl, Bombay-2. Phone : 315264.

General Electric Co. of India, Ltd., The.—"Magnet House," Dougall Road, Ballard Estate.

General Electrical Industries.—Office : Hamam House, Hamam Street, Bombay 1.

Greaves, Cotton & Co., Ltd.—1, Forbes Street.

GUEST, KEEN, WILLIAMS, LIMITED, SANKEY PRECISION PRESSINGS DIVISION.—Regd. Office : Jeevan Deep, 1, Middleton Street, Calcutta 16; Manufacturers of Precision Stampings, Laminations, Chokes, and Wound Toroidal Cores for the Electrical Industry and Light Pressings for the Electrical, Automobile and Textile Industries; Calcutta Commercial Office : Jeevan Deep, 1, Middleton Street, Calcutta 16; Phone : 442381 (11 lines); Calcutta Works : Currie Road, Shalimar, P.O. Howrah; Phone : 672026; Bangalore Office & Works : Rajaji Nagar, Bangalore 10; Phones : 3591 and 3282; Delhi Office : Jeevan Vihar, Parliament Street, New Delhi, Phones : 48136 & 47018; Delhi Retail Centre : 3/13B, Asafali Road, New Delhi, Phones : 274721; Bombay Office & Works : Agra Road, Bhandup, Bombay 78; Phone : 581451/2/3/4/5; Bombay Retail Centre : 658, Kailas Nagar, Tardeo, Bombay 7; Phone : 370754; General Managing Director : Phone : Calcutta Office : 442381; Bombay Office : 581248 and 581451. Bombay Residence : 361869. Managing Director : Phone : Calcutta Office : 442381; Bombay Office : 581248 and 581451. Grams : "LOWLOSS", Bombay, Calcutta, Bangalore, Delhi.

The advertisement for Ellora Art Industries features a central illustration of a woman in traditional Indian attire playing a stringed musical instrument, possibly a veena. Surrounding her are various electrical goods, including a large lamp with the 'Ellora' brand name, several light switches, a fuse box, and other electrical components. The 'Ellora' logo is prominently displayed in a stylized font at the top right and bottom right of the illustration. Below the illustration, the text reads 'Ellora Art Industries' and 'SHRIJEE BHUVAN, LOHAR CHAWL, BOMBAY-2'.

Telephone: 312051

(Estd. 1947)

Grams : "ELLORART"

Manufacturers of:—ELECTRICAL GOODS.

Branches: D-I Bhagirath Palace, Chandni Chowk, New Delhi.
36, Ezra Street, Calcutta.

Tele: 276366.

Tele: 347032.

Harda Electric Supply Co., Ltd.—17, Bastion Road, Fort.
Herman & Mohatta, B. R., Ltd.—Mustafa Bldg., P. Mehta Road, Bombay-1.

HIMATLAL & CO.—19-21, Hamam Street, Bombay. Authorised Dealers of "SIEMENS" Tropodur Power and Control Cables. Stockists of H.T. & L.T. Underground Cables & Dealers in Transformers Motor & O.C.B. Grams: "HOMELIGHT." Phone: 254716. Residence: 474404.

Himco (India) Private Ltd.—Kurla Road, Andheri, Bombay 41.

HIND RECTIFIERS LTD.—Lake Road, Bhandup, Bombay 78. Grams: "HIRECT," Bombay 78. Licensees of Westinghouse Brake & Signal Co., Ltd., London for Manufacture of Rectifiers, Battery Chargers, Electroplating sets, Silicon Power Plants. Selling Agents: Kaycee Industries Ltd., Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1. Phones: 263521, 22, 23; Grams: "TURNRITE".

Hind Electric & Engineering Corporation.—183, S. Gandhi Marg, Bombay-2.

Hindustan Brown Boveri Limited.—Brown Boveri House, Dr. Ambedkar Road, Bombay-25.

Imanes Private Limited.—94, S. V. Road, P. O. Box 8002, Bombay 58 AS. Phone: 571634. Grams: "IMANESCOL" Springs and Forms out of spring wires and strips for your industry.

India Electric Works, Ltd.—6, Sir Phirozshah Mehta Road, Fort.

INDIA METAL TRADERS.—92/94, Kika Street (Gulalwadi), Bombay 4; Manufacturers of AAC and ACSR Conductors, Copper Conductors, Copper Strips and Bus Bars, Stranded Copper Wires, Binding Copper Wires and Tinned Copper Wires; Phone: 334093; Grams: "METALDRAW." (GG).

INDIAN ENGINEERING CO.—Worli Naka, Post Box 16551, Bombay 18. Phones: 379544 & 374565. Grams: "APMVOLT". Also at Calcutta, New Delhi, Madras, Bangalore & Hyderabad.

Indian Industrial Engineers.—43, Tamarind Lane, Fort.

Indian Wild-Barfield Co., Private Ltd.—12A, Dr. Annie Besant Road, Worli, Bombay 18.

Indmag Private Ltd.—17, Arthur Bunder Road, Bombay 5.

Industrial Electrical Engineering Co.—Raja Bahadur Mansions, 10, Hamam Street, Fort.

International Electric Corporation.—49, Forbes Street, Fort.

INTERNATIONAL ELECTRIC TRADING CO.—Electrical Goods & Appliances. Devkaran Mansion, Block No. 2, 1st Floor, 63, Princess Street, Bombay 2 BR. Grams: "INTER-LITE", Bombay 2 BR. Phone: Office: 310613 & Res.: 472289.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

Jagmohandas, H., & Co.—176, Lohar Chawl, Bombay-2.

JASHVANT C. SHAH & CO.—Bharati Nivas, Block No. 6, 1st floor, Besant Road, Santacruz (West), Bombay-54. Phone: 359710 & C/o 317587. Grams: "OTCASNART".

Johnson & Phillips Ltd.—Kaiser-I-Hind Building, Currimbhoy Road, Ballard Estate, Bombay.

JOSEPH LESLIE & CO.—Engineers, Carbon Brushes for Electrical Machines & Automobiles, 105, Apollo Street, Bombay 1. Phone: 251608. Grams: "LEONINE."

Jostle Trading Corporation Private Ltd.—Maskati Mahal, Lohar Chawl, Bombay 2.

Karachi Electric (Cable) Co.—Himalaya House, 79, Palton Road, Bombay 1.

Kaycee Industries Ltd.—Kamani Chambers, Nicol Road, Bombay-1.

Kerala Industries (India).—22, Bhalerao Marg, Bombay-1.

Kersons Manufacturing Co. of India Ltd., The.—Gopal Nivas, Lohar Chawl, Bombay 2.

Kesbo (Private) Limited.—Office: Bombay Mutual Terrace, 1st Floor, 534, Sandhurst Bridge, Bombay 7.

Kiron Textile Industries.—Yusuf Bldg., Mahatma Gandhi Road, Bombay 1. Phone: 253224. Grams: "YANTRAYUG." Manufacturers of Electric Switchgears upto 500 Amps.; Switchboard Panels and Electric Motor Starters, H. T. Gang Operated Switches, etc.

Kumar Electric Equipment Co.—80/82, Lohar Chawl, Bombay 2.

LALLUBHAI AMICHAND PRIVATE LTD.—Proprietors, "Dun Aluminium Factory." 225-27, Tardeo Road, Bombay 7. Leading Manufacturers of all types of Electrical Shades for Domestic, Industrial, Photographic Laboratories & other uses: Grams: "CYCLEBRAND"; 377154 (4 lines); 333987, 333988; Telex: 011-2464.

LAXMI ELECTRIC TRADING CO.—(Estd. 1930) 21-23, Lohar Chawl, Bombay 2; Phone: 319048. Grams: "LAXELEC"; Stockists of Everything Electrical including Fans, Lightings, Refrigerators, "MARLEX" Appliances such as Pressure Cookers, Vibro-Tools, Musical Bells, Gong Bells, Sirens & Battery Mixers, Ventura Exhaust Fans & Almondard Air Circulators.

LIGHT HOUSE.—51, Kitchen Garden Lane, Shreeee Bhuvan, Bombay 2. Phone: 311351. Grams: "GREATWALL". Sole Selling Agents of "B.L." Brand miniature Bulbs, Electric Bulbs. Distributors of Eveready Torches. Batteries, Bulbs. and Authorised dealers for "GE" Electric Lamps.

Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder, Fort-Malik Electric Works.—Victoria Road, Mazagaon, Bombay-13.

Maneckji. G. B., & Co. Ltd.—Mehta House, Apollo Street, Fort.

Manu Electric & Engineering Works.—Kanji Goudidas Building, 160, Lohar Chawl.

Mather & Platt, Ltd.—Hamilton House, 8, Graham Road, Ballard Estate.

Mehta & Co., Private Ltd., K. L.—35, Bhangwadi, Kalbadevi Road, Bombay 2.

METROGOLD ELECTRIC STORES.—60, Lohar Chawl, Bombay 2. Phone: 315675. Sole Distributors for Getco Geysers and other Appliances; Dealers in Hot Plates, Fans, Wires, Cables, Table Lamps, Conduits and Accessories. Sales & Service.

Minerva Trading Agency, The.—58, Forbes Street, Fort.

Modern Electric Co.—50, Nariman Road, Fort, Bombay 1.

Modern Electric Co.—(Estd. 1935), Dady House, 50, Veer Nariman Road, Fort, Bombay.

Modern Engineering Co.—107, Apollo Street, Fort.

Modi & Modi Co.—16, Hamam Street, Fort, Bombay.

Motwane Private Ltd.—127, Mahatma Gandhi Road, P.O. Box No. 1312, Bombay 1 BR.

National Electrical Industries Ltd.—Lalbaug Industrial Estate, Lalbaug, Bombay 12.

Paramount Engineering Co.—Fort Chambers, Hamam Street, Fort.

Paramount (India), Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort.

Parry & Co., Ltd.—United India Building, Sir Phirozshah Mehta Road, Fort.

PARSRAM & CO.—Kailash Darshan, Kennedy Bridge, Nana Chowk, Bombay 7. Phone: 357010. Grams: "REKAM."

Photophone Equipments Ltd.—Sandhurst Bridge, Bombay.

Popular Electric Stores.—414, Harharwalla Building, Corner Golpitha, Bombay 4.

Power Cables Pvt. Ltd.—24, Brelvi Sayed Abdulla Road, Bombay 1.

Prabhat Electric Equipment Corporation.—P.O. Box No. 291, Bombay 1.

Premier Electric Co., Ltd.—Mehta House, Apollo Street, Fort.

Precious Electric Co.—Yusuf Building, Veer Nariman Road, Bombay 1.

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Evergreen Corporation.—9/15, Picket Cross Road, P.O. Box 2733, Bombay 2.

TRADE (INDIA) CORPORATION.—58, Mohamedali Road, Bombay 3. Phone: 324557; Grams: "TINDICO". Stockists of Welding Accessories, Wire Brushes & Engineering College Requisites.

ENGINEERING STORES (IMPORTERS & DEALERS)

A. M. MOTIWALLA & CO.—213, Nagdevi Street, Bombay 3. Phone: 326760. Shipchanders, Engineering Tools, Hardware & Pipe Fittings Merchants & General Stores Suppliers.

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: 'ALERTDEAL'.

Abdulkhader Shamsuddin & Co.—48, Khokha Bazar, Bombay 3.

Abdullahai Faizullahbai, Ltd.—62, Sarang St., Bombay 3.

Agarwal Commercial Corporation.—35, Bibijan Street, Bombay 3.

Agarwal Machine & Engineering Stores.—50, Nagdevi Cross Lane, Bombay 3.

Ahmedally Jiwabhai & Co.—86, Lohar Chawl, Bombay 2.

AMIRUDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1; Phones: 257982, 258633; Grams: "PILOTACE".

Apollo Engineering Co.—84, Apollo Street, Fort.

Asian Tools Trading Co.—24, Nagdevi Cross Lane, Bombay 3.

Associated Machine & Tool Co.—130, N. Master Road, Fort.

Associated Trading Agencies.—9, Abdul Rehman Street, Yusuf Building, Phyuennie, Bombay 3 (BR).

Batliloi & Company Private Limited.—Regd. Office: Forbes Street, P. Box 190A, Fort, Bombay-1 (BR). Phones: 259611 (6 lines). Grams: 'BATLIBOICO.' Tele.: 011-2284. City Branch: "BATLIBOI HOUSE", 59/61, Nagdevi Cross Lane, Bombay-3. (BR). Branches: Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, Indore, Jaipur, Kanpur, Ludhiana, Madras, New Delhi, Patna, Secunderabad, Vijayawada. Associate: Bangalore 2. Resident Representatives: Bhopal, Bhubaneswar, Raipur, Rajkot.

BALMER LAWRIE & CO., LTD.—5, Graham Road, Ballard Estate, Bombay 1; Phones: 261494, 264214, 264237 & 265492; Grams: "BALMER"; Head Office: 21, Netaji Subhas Road, Calcutta 1; Branch: 56, Jorbagh, New Delhi-3.

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS". Phone: 323193. Stockists of Elephant Brand Pulley Blocks.

Bombay Engineering Stores.—C-16, Bihari Baug, 3rd Bhoiwa's, Bombay 2.

Bombay Machine Tools & Hardware Corporation.—103, Narayan Dhuru Street, Bombay 3.

Bombay Tools & Hardware Mart.—123, Narayan Dhuru Street, Bombay 3.

BOMBAY TOOLS SUPPLYING AGENCY.—50, Nagdevi Cross Lane, Bombay 3. Phone: 321326. Grams: "TERRATOOLS." Direct Importers—Stockists of Machine Shop Tools & Precision Measuring Instruments.

Brady, W. H., & Co. Ltd.—12, Nariman Road, Bombay-1.
C. Amichand & Co.—46A, Abdul Rehman Street, Bombay 3.
C. Bole & Co.—61, Narayan Dhuru Street, Bombay 3.

C. VADILAL & CO.—40, Nagdevi Cross Lane, Bombay 3 (BR); Phone: 321553; Grams: "GREASECUP".

Central Tool & Equipment Co.—32, Sarang Street, Bombay 3.
Chhabildas & Bros.—163, Narayan Dhuru Street, Bombay 3.
Chokshi, H., & Co. Pvt. Ltd.—106, Nagindas Master Road, Bombay-1.



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Phone: c/o 32246

Grams: c/o "MONKEYGRIP"

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Essential Engineering Co.—11, Horniman Circle, Bombay-1.

Fleming, John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.

GARLICK & CO. PRIVATE LTD.—Haines Road, Jacob Circle. Also at: Maskati Market, Kapasia Bazar, Ahmedabad; 42/1, Silver Jubilee Park Road, Bangalore 2; Selva Villa, 26, Jail Road, Coimbatore-18. Green Gates, Saifabad, Hyderabad (A.P.); 38/3, Mount Road, Madras 6; G/4, Nizamuddin West, New Delhi 13.

General Trading Corporation.—36, Tamarind Street, Bombay-1.

Greaves Cotton & Co., Ltd.—1, Forbes Street, Bombay 1.

Greentose Corporation (India).—Cama Buildings, 24, Dalal Street, Bombay-1.

Hardcastle Waud & Co. Private Ltd.—Alice Building, D. N. Road, Bombay 1.

Hemant Tools Trading Co.—33, Bibijan Street, Bombay 3.

Hindustan Engineering Co.—25, Ropewalk Street, Bombay 1.

HINDUSTAN TOOLS & HARDWARE MART.—126, Lohar Chawl, Bombay 2. Importers, Stockists & Government & Railway Suppliers of General Engineering, Precision Measuring & Carpenter Tools. Also suppliers to Technical Colleges & Institutions. Grams: "FAKIRSAI". Phone: 310666.

Hiralal Gokaldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.
Industrial & Agricultural Engineering Co.—43, Forbes Street, Bombay-1.

Industrial Development Corpn.—73, Bank of Baroda Building, Phalton Road, Bombay 1.

International Tools & Hardware Stores.—84, Kika Street, Bombay 4.

Jairamdas & Sons.—163, Narayan Dhuru Street, Bombay 3.

Jayant Engineering & Mill Stores.—Industrial House, Nagdevi Cross Lane, Bombay 3.

John Fleming & Co. Private Ltd.—21, Bastion Road, Bombay 1.

Jones, J. D., & Co. Ltd.—Rustom Building, Nariman Road, Fort.

Kadakia Trading Corporation.—25, Bibijan Street (Nagdevi), Bombay 3.

Kantilal Bhogilal & Co.—63, Nagdevi Cross Lane, Bombay 3.

Machine Tools & Implements.—93-95, Narayan Dhuru Street, Bombay 3.

Marine & Mills Agencies.—197, Nagdevi Street, Bombay 3.

Mehta Engineering Stores.—Industrial House, 51/53, Nagdevi Cross Lane, Bombay 3.

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone: 324645. Grams: "REDJOINT".

MODERN MACHINE TOOLS CO.—H.O. 88, Nagdevi Cross Lane, Bombay 3; Grams: "MONKEYGRIP"; Phone: 322456; Agents: Relight Ball & Cross Peni Hammers, Chain Wrenches, Hollow Punches, Spring Callipers and Dividers, Spanners and adjustable Wrenches, Vices, Mefa Oil Cans, BTI Hacksaw Frames; Stockist: Mayank Stauffer type Grease

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New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

Palatal Mohanlal & Co.—89, Nagdevi Street, Bombay 3.

Patel, U. D., & Co.—11, Bank Street, Bombay-1.

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RELIANCE TRADING CO.—Vithal Sayana Building No. 1, Lohar Street, Bombay 2. Phone: 314/51. Grams: "STORE-TRADE". Engineering Stores, Hardware, Taps & Dies Merchants.

Sachin & Co.—25, Bank Street, Bombay-1.

Shan Patel & Co.—111, Nagdevi Street, Bombay 3.

Techno Industrial Co.—107, 16, Apollo Street, Fort, Post Box No. 811, Bombay.

Trade (India) Corporation.—Resham Bldg., Mohamedalli Road, P.O. Box 3231, Bombay.

T. M. Tyabji & Brothers.—32, Hamam Street, Bombay-1.

Trinity Electric Syndicate.—154, Shamaldas Gandhi Marg, Bombay-2.

Universal Trading Co.—Mohamedali House, 79, Mohamedali Road, Narayan Dhuru Cross Lane, Bombay 3.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Bombay 1.

ENGINEERS AND CONTRACTORS

Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3.

Acme Manufacturing Co., Ltd.—Construction House, Ballard Estate, Bombay 1.

AGRA ENGINEERING CO.—40, Bank Street, Fort, Bombay 1; Phone: Office: 256541; Res. 532906. Grams: "RAISPARES." Manufacturers of Diesel & Automobile Spare Parts, "ARROW" & "DISPA" Liners & Pistons for Diesel Engines. "MG" Pistons for Cars, Trucks, Commercial Vehicles, Motor Cycles, Scooters & Tractors.

Air Conditioning Corporation Ltd.—Elphinstone Building, Nariman Road, Bombay-1.

Alcock, Ashdown & Co., Ltd.—16, Bank Street, Bombay-1.

Alfred Herbert (India), Ltd.—Kaiser-I-Hind Building, Ballard Estate, Bombay-1.

Apollo Engineering Co.—84, Apollo Street, Bombay-1.

ART METAL WORKS (Estd. 1882).—35-C, Jerajbhoy Street, Foras Road, Bombay 8. Phone: 371692. Brass & Iron Founders, Builders, Hardware Manufacturers and Engineers & Contractors.

Associated Machine & Tools Co.—130, Nagindas Master Road, Bombay-1.

Autogenous Welding & Repair Co. Private Ltd.—63, Ferguson Road, Bombay 13.

Babcock & Wilcox, of India Ltd.—16, Karve Road Estate, Bombay-1.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay-1.

Batliloi & Co.—Bhera House, Apollo Street, Bombay-1.

Bharat Electric & Engineering Corporation.—21, Dalal Street, Bombay-1.

Billington W., & Co., Ltd.—Imperial Chambers, Ballard Estate, Bombay-1.

Brady, W. H., & Co., Ltd.—12, Nariman Road, Bombay-1.

British Engineering Co.—105, Apollo Street, Bombay-1.

British Steel Pillin Co. (India) Ltd.—Cosmopolis, Nepean Sea Road, Bombay 6.

Candy Filters (India), Ltd.—Forbes Building, Home Street, Bombay-1.

Cementation Company Ltd.—Steelcrete House, D. Vachha Road, Bombay-1.

Chokai, H. & Co. Pvt. Ltd.—106, Nagindas Master Road, Bombay-1.

Chotani Electric Engineering Co. Ltd.—57, Apollo Street, Bombay-1.

Curtis, & Co., Ltd. J.—77, Keluskar Road, Bombay-28.
 Diamond Electric Co.—18, Hamam Street, Bombay-1.
 Dinshaw Master & Co., Ltd.—247, Nagdevi Street, Bombay-3.
 Drewet, Chowna & Co.—123, Nagindas Master Road, Bombay-1.
 Duncan, Stratton & Co., Ltd.—29, Bank Street, Bombay 1.
 Economic Electric Co., Ltd., The.—Jail Road (East), Bombay 9.
 Economy Traders.—Dholandas Mansion, Cumballa Hill, Gowalla Tank Road, Bombay 26.
 Edgar Handley and Company Limited.—135, Nagindas Master Road, Bombay-1.
 Electric Cable & Machinery Co.—45, Forbes Street, Fort.
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Francis Klein & Co. (Bombay) Ltd.—Shale Building, Bank Street, Bombay-1.

Gagrat & Co.—Ali Chambers, N. Master Road, Bombay-1.

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General Electric Co. of India, Ltd., The.—Magnet House, Dougall Road, Bombay-1.

Greaves, Cotton & Co., Ltd.—1, Forbes Street, Bombay-1.

Guest, Keen, Williams, Ltd.—Wakefield House, Ballard Estate, Bombay-1.

Hardcastle Waud & Co., Ltd.—Alice Building, D. N. Road, Bombay-1.

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Hind Constructions & Engg. Co. Ltd.—Queen's Mansion, Bastion Road, Bombay-1.

Hindustan Construction Co., Ltd.—Construction House, Ballard Estate.

Hughes & Davies.—101, Mahatma Gandhi Road, Bombay-1.

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Industrial Electrical Engineering Co.—10, Hamam Street, Bombay-1.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

Jayems Engineering Co.—130, Apollo Street, Bombay-1.

John Thomson (India) Private Ltd.—Great Social Building, Sir Phirozeshah Mehta Road, Bombay 1.

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Kumar Engineering Works.—65, Mahatma Gandhi Road, Bombay-1.

Larsen & Toubro Ltd.—L. and T. House, Dougall Road, Ballard Estate, P.O. Box 278, Bombay 1.

M. J. Parikh.—491/93, Maulana Azad Road, Bombay-4 (B.R.).

Mapara Engineering Co.—381, Dadabhoy Naoroji Road, Bombay 1.

Marshall Sons & Co. (India), Ltd.—79, Dr. Annie Besant Road, Bombay-18.

Mather & Platt, Ltd.—Hamilton House, Graham Road, Bombay-1.

Mayashanker Thacker & Co.—65, Apollo Street, Bombay-1.

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McKenzies, Ltd.—Donde Marg, Bombay 15.

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Modern Electric Co.—50, Nariman Road, Bombay-1.

Modern Mercantile Works.—Meher House, Cawasji Patel Street, Bombay-1.

Modern Textile Engineering Works.—194, Trimbak Parashram Street, Bombay 4.

Mody Trading Co.—50, Nagdevi Cross Lane, Bombay 3.

Motichand & Co.—United India Building, Sir Phirozeshah Mehta Road, Bombay-1.

Muncherjee Byramjee & Co.—100, Foras Road, Bombay 8.

Nadirshaw & Bros.—Silver Talkies Building, Khetwadi Back Road, Bombay-4.

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Poonager, Bilimoria & Co.—Cama Building, 24-26, Dalal Street, Fort, Bombay 1.

Premier Construction Co., Ltd.—Construction House, Ballard Estate, Bombay-1.

Protos Engineering Co., Ltd.—173, Jamshedji Tata Road, Bombay-1.

Reliance Electric & Hardware Stores.—Krishna Bhuvan, Lohar Chawl, Bombay-2.

Reliance Trading Co.—Vithal Sayana Building, Lohar Chawl, Bombay-2.

Richardson & Cruddas Ltd.—Byculla Ironworks, Byculla, Bombay-8.

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SHAH CONSTRUCTION CO. LTD.—198, Jamshedji Tata Road, Bombay 1. Phone: 295044. Grams: "SUPERTRADE." Engineers & Contractors, Specialists in Prestressed Concrete Roads, Dams & Canals. R. C. C. Multistoreyed Buildings.

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Simpson, D. R., & Co.—33, Gamdevi Road, Bombay 7.

SKF Ball Bearing Co. Private Ltd.—Mustafa Building, 19, Sir Phirozshah Mehta Road, Fort, P.O. Box No. 71, Bombay.

Smidth & Co. (Bombay) Ltd., F. L.—124/D, Karve Road, Bombay 20.

Stewarts & Lloyds of India, Ltd.—Himalaya House, Palton Road, Bombay 1.

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Trinity Electric Syndicate.—154, Shamaldas Gandhi Marg, Bombay-2.

Turner, Hoare & Co. Ltd.—Gateway Building, Apollo Bunder, Bombay 1.

United Engineering Corporation.—5, Mama Paramanand Marg, Bombay-4.

Universal Construction Co.—16, Apollo Street, Bombay-1.

VAZIFDAR BUILDERS PRIVATE LTD.—Designers, Builders & Promoters, Corinthian, 17, Off Arthur Bunder Road, Colaba, Bombay 5.

Verma, Ramlal G.—Matildas Haven, East Avenue, Bombay 54.

Victoria Sanitary Stores.—54, 3rd Bhoiwada, Bombay 2.

Volts Ltd.—Strand House, Graham Road, Ballard Estate, Bombay-1.

Western India Engineering Corpn. Ltd.—Ali Chambers, Tamarind St., Bombay-1.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay-1.

ENGINEERING TOOLS

Asian Tools Trading Co.—24, Nagdevi Cross Lane, Bombay-3.

HEMANT TOOLS TRADING CO.—33, Bibijan Street (Barbhai Mohalla), Bombay-3. Grams: "LACING". Phone: 321174. Stockists of Quick change chucks & collets. "SCEKO" Brand Revolving Centres.

HINDUSTAN TOOLS & ENGINEERING CO.—P.O. Box No. 2311, Picket Cross Lane, Bombay 2; Phone: 318965; Grams: "DRILLTAPS"; Stockists: Engineering Tools, Hardware, Millgin Store & Stainless Steel Pipe fittings.

New Hind Trading Corporation.—137, Narayan Dhuru Street, Bombay 3.

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Commercial Art Engravers Ltd.—Saraswati Mandir, Kennedy Bridge, Bombay-7.

Claridge, G., & Co., Ltd.—Bhagat Singh Road, Fort, Bombay 1.

Ghaisas, C. J., & Co.—Ramchandra Building, Tram Terminus, Girgaum, T.T., Bombay-4.

Masani & Co.—Engravers, Ararat, 89-C, Meadows Street, Fort, Bombay 1.

Mitbawkar, G. A., & Co.—80, Bruce Street, Bombay 1.

Modern Die Stampers & Engravers.—10, Homji Street, Fort, Bombay.

Shah Trading Corporation.—Oomrigar Building, 1st Floor, opp. Crawford Market, Bombay 3.

Thacker & Co., Ltd.—18, Rampart Row, Bombay 1.

TIMES OF INDIA PRESS, THE.—Dr. Dadabhai Naoroji Road, Fort.

ENVELOPE MANUFACTURERS

CHETAN PAPER INDUSTRIES.—Associates, Himatlal & Company, 26, Noble Chambers, Parsi Bazar Street, Fort, Bombay 1; Grams: "HIMSHAH".

ESSENCES

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Akbarally Ebrahimji Pharmacy & Department Store.—45, Veer Nariman Road, Bombay 1.

Carls Aerating Machinery Co.—Diamond Building, Lohar Street, Bombay 2.

General Import Co. (India).—102, Shamaldas Gandhi Marg, Bombay 2.

GOLDENSUN MANUFACTURING CO.—Distillers & Manufacturers of Highly Concentrated Fruit & Flower Essences & Essential Oils, Perfume Compounds, etc. Bansilal Building, 64/C, Girgaum Road, Bombay 4. Sales Office: Mulchand Mansion, Princess Street, Bombay 2.

Gujrat Essence Mart.—126, Shamaldas Gandhi Marg, Bombay 2.

T. ALIMAHOMED & CO.—(Estd. 1924), Stockists of all sorts of Essences & other Baking Requisites. 144-46, Sarang Street, Bombay 3. Phone: 327131. Grams: "AERATORS." Sole Agents for the Diamond Aerating Gas Works Ltd., Bombay 3.

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Akbarally Mohamedally & Co.—D-316, Abdul Rehman Street, Bombay 3.

AMRUTLAL BHURABHAI & CO.—P. O. Box No. 2379, Anand Bhuvan, Princess Street, Bombay 2 (BR); Phones: 311023, 311024 & 311025; Grams: "CHEMDRUGS"; Bombay 2 (BR). Direct Importers & Dealers of all kinds of Laboratory Chemicals, Drugs & Essential Oils.

AROMATIC PRODUCTS & CHEMICALS PRIVATE LTD.—Importers and Indentors of Essential Oils, Aromatic Chemicals and Perfumery Raw Materials. 42, Prospect Chambers Annexe, Dr. Dadabhai Naoroji Road, Fort. Grams: "DISCOVERY." Phone: 257991.

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CALCUTTA ESSENCE SUPPLY CO.—Mulchand Mansion, 1st Floor, Princess Street, Bombay 2. Grams: "SUPRALUX." Phone: 312623. Dealers and Importers of Essential Oils, Aromatic Chemicals and Perfumery Compounds. Branch at 41, Ezra Street, Calcutta 1; Phone: 341263.

Carls Aerating Machinery Co.—Diamond Building, Lohar Chawl, Bombay 2.

D. D. Shah & Co.—Shamaldas Gandhi Marg, Bombay 2.

Dhamdhare, K. H.—45 Shamaldas Gandhi Marg, Bombay-2.

F. Book & Co.—Shale Building—Bank Street, Bombay 1.

Fidaalli Abdulrasul Atterwalla & Co.—12-14, Mirza Street, Bombay 3.

GENERAL IMPORT CO. (INDIA).—Keshav Baug, 102, Princess Street, Post Box No. 2376, Bombay 2; Phone: 314497. Grams: "SODALEMON." Aromatic Chemicals, Essential oils. Aerated water requisites, Essences, Harmless Food Colours and Saccharine.

Gujarat Essence Mart.—120, Shamaldas Gandhi Marg, Bombay 2.

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road, Bombay 1.

M. C. DAVAR & CO.—143, Princess Street, Bombay 2. Phone: 315752. Grams: "EMCIDAVAR." Aromatic Chemicals, Essential Oils and Perfumery materials. Agents for: Givaudan Dubendorf Ltd. (Formerly Esrolko), Switzerland.

N. R. SHAH & COMPANY.—Mulchand Mansion, Princess Street, Bombay-2. Phone No.: 310093. Grams: "WALFLOWER." Perfumers and Perfumery Raw Material Dealers. Dealing in Aromatic Chemicals, B. P. Natural, Synthetic, Essential Oils and Perfumery Compounds.

New India Pharmacy.—32, Shamaldas Gandhi Marg, Bombay 2.

Odhawji Lawji & Co.—Chikhal House, Princess Street, Bombay 2.

Oriental Aromatics.—Sharaf Mansion, Princess Street, Bombay 2.

Parekh Bros., Ltd.—65, Mahatma Gandhi Road, Fort, Bombay-1.

ROSHANLAL & SONS.—133, Princess Street, Gopal Nivas, Bombay 2. Phone: 314579. Grams: "BERGAMOT." Importers & Dealers in Essential Oils, Aromatic Chemicals, Flavouring Essences & Food Colours. Distributors for "ABRAC".

Scientific & Industrial Supplies Corporation.—17, Babu Genu Road, Bombay 2.

S. H. KELKAR & CO. PRIVATE LTD. (Estd. 1928).—36, Mangaldas Road, Bombay 2. Phone: 319130. Grams: "SACHEWORKS," Dadar, Bombay. Manufacturers of Essential Oils, Aromatic Chemicals & "COBRA" Brand Perfumes.

Sikri Brothers.—79-E, S. Gandhi Marg, Bombay 2.

T. Alimahomed & Co.—Harharwalla Bldg., Sarang Street, Bombay 3.

Voltas Ltd.—Strand House, Graham Road, Ballard Estate, Bombay 1.

EXHAUST FANS

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Radiant Electric & Machinery Co.—Sir Vithaldas Chambers, Bruce Street, Bombay 1.

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ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: "ALERTDEAL".

Chunilal & Co.—74, Abdul Rehman Street, opp. State Bank, Bombay 3.

Excel Importers.—89, Shamaldas Gandhi Marg, Bombay 2.

Phone: 312461.

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Phone: 691321.

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Phone: 32846.

Grams: "WIRECLOTH", Madras 3.

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HARISHCHANDRA & CO., JALIWALA.—233, Abdul Rehman Street (opp. Sutar Chawl), Bombay 3. Manufacturers of perforated metal sheets of all kinds, and stockists of welded mesh. Expanded metals, Wire Netting of all kinds. On Govt., Railway & Municipal Lists. Phones: 322907 & 323161. Grams: "HARIJALI".

Hindustan Wire Netting Co.—Agra Road, Thana.

Hosseini, M. A., & Bros.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Indian Expanded Metals Ltd.—Maneckji Wadia Bldg., M. G. Road, Bombay 1.

INDIAN HARDWARE CO.—Bhabha Building, 151, Princess Street, Bombay 3. Dealers in Wire Gauze, Hex. Wire Nettings, Chain Link Fencing, Crimped Wire Net, Panel Pins, Barbed Wire & other Wire Products & Expanded Metal, Welded Mesh, etc. Tel. No. 319904.

Mehta & Co.—35, Abdul Rehman Street, Bombay 3.

Metal Net Depot.—113, Abdul Rehman Street, Bombay 3.

Metal Perforators.—43, Abdul Rehman Street, Bombay 3.

NASH & COMPANY.—103, Abdul Rehman Street, Bombay 3. Phone: 324968. Steel Expanded Metal. Crimped Wire Netting and Welded Mesh Fabric.

Parsee Trading Co.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

Rainbow Iron Works.—113, Abdul Rehman Street, Bombay-3.

Reliance Trading Co.—Vithal Sayana Bldg., Lohar Chawl, Bombay 2.

S. MEHTA & CO.—Anees Chambers, Carnac Road, Bombay 1. Phone: 263001; Grams: "DUTYBOUND"; Telex 011-2624. Industrial Wire Netting and Perforated Metals, Stainless Steel Wire Nettings and Monel Metal Wire Nettings; Importers, Exporters and Merchants.

T. A. Saifi & Bros. (India).—20, Sarang Street, Bombay 3.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Bombay 1.

EXPORTERS & IMPORTERS

CHANRAI UTAMCHAND.—Exporters of All Textiles & Merchandise. 93, Queen's Road, Bombay-20. Phones: 242155 & 243607.

EBRAHIM ALLIBHOY & SONS (Estd. 1934).—Manufacturers & Exporters of Plastic Goods, Toys, Sports Goods, Novelties, Hardware, Ladies Handbags, Furniture Fittings, etc. 260-64, Abdul Rehman Street, Bombay-3. Grams: "EALISONS". Phone: 325163.

Jayantilal Mangaldas & Sons.—40, Bombay Mutual Annexe, Gunbow Street, Bombay 1.

JAYEMS ENGINEERING CO.—Great Western Bldg., 1st Floor, 130-132, Apollo Street, Fort, Bombay-1. Exporters of Diesel Engines, Electrical & Diesel Driven Pumps, Machine Tools of all types. Phone: 255891. Grams: "JAYEMS".

FABRICATORS

GENERAL TUBES PRIVATE LTD.—142/44, Nagdevi Street, Bombay 3; Grams: "GENTUBES"; Phones: 322894, 328390; Manufacturers & Exporters, C.I. Pipes, Specials, Water Meters Valves of various Types; Steel Pipes & Fitting for Water Gas & Steam. Also Fabrication of Steel Pipes Fittings, Suitable for Rubber Linings for Special Chemical Industries; Pressure Vessel, Steam Separators and Heating Coils to Customers Specifications.

FACTORY AND CALENDAR CLOCKS

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Phone: 318695. Grams: "ESSENCE." Importers, Exporters, Commission Agents and Manufacturers' Representatives.

FACTORY TIME SAVING DEVICE

Batilboi & Company Private Limited.—Regd. Office: Forbes Street, P. Box 190A, Bombay-1 (BR.). Phones: 259611 (6 lines). Grams: "BATLIBOICO." Tele: 011-2284. City Branch: "BATLIBOI HOUSE", 59/61, Nagdevi Cross Lane, Bombay 3 (BR.). Branches: Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, Indore, Jaipur, Kanpur, Ludhiana, Madras, New Delhi, Patna, Secunderabad, Vijayawada. Associate: Bangalore 2. Resident Representatives: Bhopal, Bhubaneswar, Raipur, Rajkot.

FELTS (WOOLLEN) PRESSED

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: "ALERTDEAL".

THAKER VALLABHDAS SHAMJI.—32, Dubash Market, 369, Sheikh Memon Street, Bombay-2 (BR.). Phone: 328547. Grams: "THAVASHA". Felt available in all fibres from 1 mm to 1" Thickness. Mfrs:—Washers, Seals, Elements etc.

Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.

Williams, G., & Co. Private Ltd.—"Advent", Gen. Bhonsle Marg, Bombay 1.

FENTS (CUTPIECES)

Allied Exporters.—Kumud House, 267, D. N. Road, Bombay 1.

Bajaj Bros. Ltd.—Round Building, Kalbadevi Road, Bombay 2.

Ebrahim Allibhoi & Sons.—260, Abdul Rehman Street, Bombay 3.

Hosseini, M. A., & Bros.—Lakshmi Building, Sir Phirozshah Mehta Road, Bombay 1.

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road, Bombay 1.

Yacoob Ahmed Bros.—95A, Mahomedally Road, Bombay 3.

FERTILISERS

Bharat Fertiliser Industries Ltd.—12, Nanabhoy Lane, Fort, Bombay 1.

CHEMBUR BONE & FERTILISER CO., PRIVATE LTD.—Managing Agents: Anderson Dawn & Co., Darabshaw House, Ballard Road, Bombay 1. Phones: Office: 263839; Factory: 521821. Grams: "BYPRODUCT."

PLAS-FAB PRIVATE LTD.—Advent, 7th floor, 12A, General J. Bhosle Road, Bombay-1. Telephone: 214258. Telegrams: "FILTERFAB". Leading Suppliers of all types of Woven and Non-woven Filter Cloth and industrial Machine Clothing.

Poonjiaji, J. M. Jehangir.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

Premji, Haridas & Co.—170, Sant Tukaram Road, Bombay 9.

T. T. Krishnamachari & Co.—Vulcan Insurance Building, Veer Nariman Road, Bombay 1.

TURNER, HOARE & COMPANY LIMITED.—Head Office: Wavell House, 15, Graham Road, Ballard Estate, Bombay 1. Phone: 262711 (8 lines); Cable: "ENDEAVOUR"; Code: ACME & BENTLEY'S; TELEX. 2282; Offices: Delhi, Calcutta, & Madras,

Western Chemical Industries.—Goregaon (East), Bombay 63.

FILM STUDIO EQUIPMENT IMPORTERS

Patel India Ltd.—190, D. N. Road, Bombay 1.

Photophone Equipments, Ltd.—Sandhurst Bridge, Bombay 7.

CINERAMA PRIVATE LTD. (Successors to Westrex Company, India).—Metro House, Mahatma Gandhi Road, Bombay 1; P.O. Box 1232; Grams: "SUPERSOUND"; Phones: 293873 & 293874.

FILTER CLOTH MANUFACTURERS

Dossa Harjee.—257, Yusuf Meherally Road, Bombay 3.



THAKER VALLABHDAS SHAMJI.—32, Dubash Market, 369, Sheikh Memon Street, Bombay-2 (BR.). Phone: 328547. Grams: "THAVASHA". Filters available in all fibres in various qualities and widths. Mfrs: Bags, Frames, Elements etc.

FILTERS

H. J. LEACH & COMPANY

Post Box No. 899, Asian Building, Nicol Road,
Ballard Estate, Bombay-1.

FILTERS

For Fuel Oil, Lubricating Oil and Air of I.C.

Engines and for Industrial purposes.

Diesel and Steam Power Plants from 5 kw to 5,000 kw.

ENQUIRIES SOLICITED

JOHN FOWLER (INDIA) LTD.—Marshall's Building, Ballard Road, Bombay 1. Phone: 263059. Grams: "TRACTION." Sole Selling Concessionaires of "VOKES" Filtration Equipment.

Universal Filtration Co. Private Ltd.—Commerce House (2nd Floor), N. Master Road, Bombay 1.

FIRE-BRICKS & REFRACTORIES

ALEXANDER & RAYMOND (BOMBAY).—Manufacturers of refractory Materials, Sitaram Building, "G," Phalton Road, Bombay 1. Phone: Office: 262150 & Res.: 573040. Grams: "REFRACTORY."

Balmer Lawrie & Co., Ltd.—5, Graham Road, Bombay 1.

Datson Raviraj & Co. (Private) Ltd.—43, Tamarind Lane, Fort, Bombay 1.

FIRE BRICKS & REFRACTORIES

Asbestos, Standard size Fire Bricks, special size Fire Bricks, Insulation Bricks, Acid Proof Bricks, Fire Cement, Fire Clay, with High Alumina and High Temperature.

Available from ex-stock at most competitive rate.

MAHAVIR REFRACTORIES CORPORATION

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Phones: { Office: 311939,
Res.: 352414 and
Godown: 379288.

Agents for:

M/s. Andhra Pradesh Mining Corpn. Ltd. (A wholly State Undertaking); M/s. India Firebricks & Insulation Co. Ltd. (In collaboration with M/s. Thomas Marshall & Co. Ltd., England); M/s. Narendra Ceramics.

Ishwar Industries Ltd., The.—11, Bank Street, Bombay 1.

J. CHANDRAVADAN & CO.

Stockists of:—A.C.C. Fire-Bricks, Clay, Accosel-50, Accocid Firecrete, Firecrete Calundum, Super Accoproof etc.

Address: 53, C.P. Tank Road, Bombay-4.

Grams: "COLORSTONE" Phone: 334403

Nowroji N. Vakil & Co.—Sheru Castle, Mohamedalli Road, Bombay 3.
William Jacks & Co., Ltd.—Hamilton House, Graham Road, Bombay 1.

FIRE FIGHTING APPLIANCES (MANUFACTURERS AND DEALERS)

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: "ALERTDEAL".

Armstrong Smith Ltd.—Gresham House, Sir P. M. Road, Bombay 1.

BALMER LAWRIE & CO., LTD.—5, Graham Road, Ballard Estate, Bombay 1; Phones: 261494, 264214, 264237 & 265492; Grams: "BALMER"; Head Office: 21, Netaji Subhas Road, Calcutta 1; Branch: 56, Jorbagh, New Delhi-3.

Bengal Chemical & Pharmaceutical Works Ltd.—Savarkar Marg, Bombay 25.

Crescent Trading Co.—48, Bhajipala Street, Bombay 3.

Eastern Stores & Trading Co. Private Ltd.—115, Nagdevi Street, Bombay 3.

Fleming, John & Co. Private Ltd.—P. B. No. 76, Bombay 1.

FYRFO PRIVATE LTD.

(Fire Protection Engineers)

Head Office:

1, Kurla Industrial Estate,
Agra Road, Ghatkopar,
Bombay 77.

Phone: 55342

Grams: "FOGNOZZLE"



Branch Office & Show Room:

Mohan Mansion, 38-C, Mount Road, Madras-6.

5, Residency Rd., St. Mary's Bldg., Bangalore-25.

1-2-597/23 Ground Floor, Lower Tank Bund Rd., Domalguda, Hyderabad-29.

Manufacturers & Dealers in:

- All types of Fire Extinguishers.
- Fire Engines, Trailer Pumps, and Fire fighting equipments.

Imanes Private Limited.—94, S. V. Road, P.O. Box 8002, Bombay 56-AS. Phone: 571634. Grams: "IMANESCOL". Springs and Forms out of Spring Wires and Strips for your Industry.

Industrial Commercial Corporation.—Lotus Chambers, Narayan Dhuru Street, Bombay 3.

Kooverji Devshi & Co. Private Ltd.—Arun Chambers, Tardeo Road, Bombay 34.

HOME-AUTO FIREX costing only Rs. 75.00 saves Life & Property in the Home and in the Car

Contact: **FIREX SALES & SERVICE**

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Phone: 371276 220368 22460 3688

AHMEDABAD 1 COCHIN 2 INDORE 3 PATNA

Phone: 24464 25040 6872 22401

Manufacturers:

KOOVERJI DEVSHI & CO. PVT. LTD.

164, Lohar Street, Bombay-2.

Merchant Bros.—151, Nagdevi Street, Bombay 3.

Minimax Ltd.—Byculla Servindustries Bldg., 'A' Sussex Road, Bombay 18.

Radiant Electric Machinery Co.—Sir Vithaldas Chambers, Bruce Street, Bombay 1.

Red Comet (India) Pvt. Limited.—60, Sion West, Bombay 22.

Roberts, McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Bombay.

Shalebhoj Tyebjee & Sons.—12, Bruce Street, Bombay 1.

SIMPLEX TIMBER MART.—64-68, Ibrahim Mohd. Merchant Road, Khadak, Bombay 9. Phone: 331794. Grams: "LADDERMAN." Manufacturers of "AJAX" Extension Ladders, Wheeled Fire "ESCAPE" Ladders & Wall Extension Ladders for Fire Fighting.

STANDARD EQUIPMENT CORPORATION.—G.P.O. Box No. 914, 19, Bank Street, 2nd Floor, Fort, Bombay 1 (BR); Phone: 252625.

T. Ali Mahomed & Co. (Estd. 1924).—144-46, Sarang Street, Bombay-3.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Bombay 1.

ZENITH FIRE SERVICE

127/129, Modi Street Fort, Bombay 1.

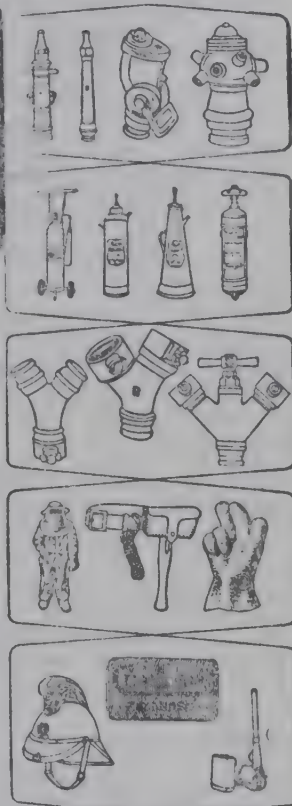
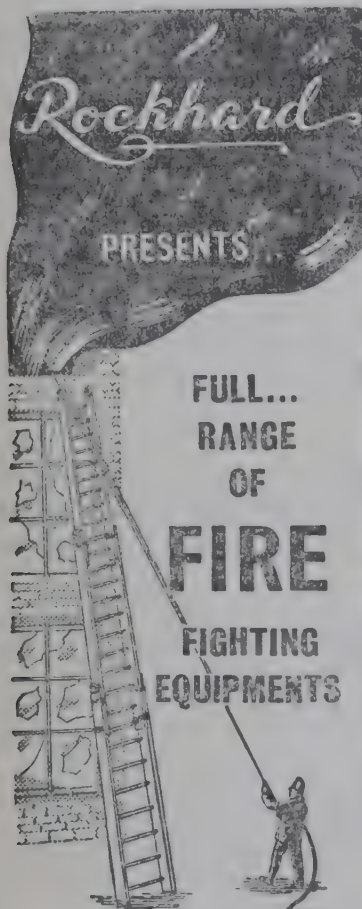
Grams: "BAZARSEVAK".

Phone: 265416.

Manufacturers & Exporters of:

Quality ZENITH Brand Fire Extinguishers in all Ranges and Types; Tested and Approved by National Test House, Alipore, Calcutta and Fire Insurance Association, Bombay; Soda Acid and Foam Type 9 litres capacity made as per I.S.I. and Approved by Mercantile Marine Department.

Also manufacturers first time in India Heavy Gas Cylinders for all Liquifiable and Store Gases and Tested upto 3360 lbs. (250 Atom) by National Test House, Alipore; Approved Suppliers to D.G.S. & D., Railways and all major Industries with eighteen Stockists and Sales Departments all over India.



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FIRE ENGINEERS**

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Phone: 254292 Grams: "ROCKHOSE"

Branch at: 83/84, S. J. Park Road, Bangalore-2.

FIRE WORKS MANUFACTURERS AND DEALERS

Kaka Fire Works.—Kurla Road, Bombay 69.

SHAMA FIREWORKS INDUSTRIES.—Manufacturers of Fancy Fireworks which BEAT the BEST. Our Brands: SWAN, SHAMA, BABA, Etc., Etc. Always use SHAMA'S Fireworks for Joyous Festivity. H.O.: Acharya Kripalani Road, P.O. Box No. 39, Jalgaon (M.S.). Phones: 193 Factory; 305 Residence. Grams: "SHAMA". B.O.: 142, Samuel Street, Bombay-9 (BR). Phone: 325521. Grams: "PHULJHARI".

FISHING REQUISITES

ABBASBHAI MOHAMEDALLY & CO.—198, Janjekar Street, Bombay-3. B. R. Exporters, Importers and General Merchants. Sole Agent to: "SEA HORSE" Brand Nylon Twine. Made in Japan. "TRIPLE FISH" Brand Fish Lines of West Germany. Agents to: YAMAMOTO. Fish Hook works, OSAKA/JAPAN. Stockist of NORWAY MAKE FISH HOOK & Other Fishing Requisites. Telephone: 326337. Grams: "CHATPATCOY." Bombay.

KASAMALI SAFDARALI & CO.

19, Bhandari Street, Bombay-3.

Phone: 326571.

Grams: "FISHGUTS".

Dealers in:

Nylon Twine, Fishing Lines, Fish Hooks, Filaments & Ropes and other Fishing Requisites.

MAHARASHTRA FISHING MATERIAL CO.

23, Bhandari Street, Bombay-3.

Phone: 326571

Grams: "FISHNYLON"

Dealers in:

All kinds of Fishing Requisites. Distributors of Garware Nylon Fishnet Twine.

Rasiwalla & Co., M. M. A.—17, Janjekar Street, Bombay 3.

FLASHLIGHT TORCHES, DRY BATTERIES AND TORCH BULBS

LIGHT HOUSE.—51, Kitchen Garden Lane, Shrijee Bhuvan, Bombay 2. Phone: 311351. Grams: "GREATWALL." Sole Selling Agents of "BL" Brand Miniature Bulbs, Electrical Bulbs, Distributors for Eveready Batteries, Bulbs & Torches.

UNION CARBIDE INDIA LTD.—Laxmi Building, Sir P. M. Road, Fort, Bombay 1. Phones: 264521 & 264522. Grams: "EVEREADY."

FLORISTS AND SEEDSMEN

Apollo Florist.—45, Colaba Causeway, Bombay 1.

PALEKAR & CO. (Estd. 1870).—Sitaram Bldgs., near Crawford Market, Bombay 1. Phone: 262236. Grams: "RUDRA" Stockists of Flower & Vegetable Seeds, Garden Tools, Nursery Plants.

FLOORING TILE & COMPOSITIONS MFRS.

OXY-CHLORIDE FLOORING PRODUCTS LTD., THE.—Arthur Bunder, Colaba, Bombay 5. Phone: 211571. Grams: "STONETTE."

SOLANKI & SONS

Manufacturers of

Oxy-Chloride Flooring in Charming Shades

Address: Tagara Mill Compound, Outside Raipur Gate, Ahmedabad-22. 54315

Branch: 181, Maulana Azad Road, 3rd Floor, Bombay 8.

STONOLITE MONOLYTHIC PRODUCTS.—Jiji House, Ravelin Street, Bombay 1. Manufacturers of "STONOLITE" Brand Flooring Composition. Phone: 264296.

FLOUR MILLS

PLAS-FAB PRIVATE LTD.—Advent, 7th floor, 12A, General J. Bhosle Road, Bombay-1. Phone: 214258. Grams: "FILTER FAB". Leading Suppliers of all types of Woven and Non-Woven Filter Cloth and industrial Machine Clothing.

FLUORESCENT CHOKES

B. CHOWDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay-1. Phone : 26-3479. Grams : "BISUKHI". Specialist in Street Light Fixtures, Fluorescent fixtures of all kinds.

FLUORESCENT FIXTURES

B. CHOWDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay-1. Phone : 26-3479. Grams : "BISUKHI". Specialist in Street Light Fixtures, Fluorescent fixtures of all kinds.

FLUORESCENT TUBES AND FITTINGS MFRS.

BAJAJ ELECTRICALS LTD.—45/47, Veer Nariman Road, Bombay 1. Marketing Electrical Consumer Goods, Electrical Engineers, Manufacturers and Contractors. Phone : 253841. Grams : "SOFTLITE." Branches at: Bombay, Calcutta, Delhi, Madras, Kanpur, Patna, Indore, Wardha, Gauhati, Hyderabad, Jaipur, Jullunder & Bangalore.

Hindco Lighting Industries Ltd.—Hindlight House, Subhash Nagar, Off Caves Road, Bombay 60.

Premier Lighting Industries Private Ltd.—Jhaveri Building, 348/352, Abdul Behman Street, Bombay 3.

FLUSH DOORS

NASH & COMPANY.—103, Abdul Rehman Street, Bombay 3. Phone : 324968. Commercial & Decorative Flush Doors, Black Boards, Okal Boards, Particles Board and Formica.

FOAM RUBBER

FOAM RUBBER COMPANY.—MM Foam Mattresses, Pillows, Cushions, Bus Seating, etc., 50, Old Custom House Road, Bombay 1; Phone : 256989.

FOOTWEAR MFRS.

CARONA SAHU CO., LTD.—"Fort House," 221, Dadabhoy Naoroji Road, Bombay-1. Manufacturers of Canvas, Rubber, Shoes & Chappals, Leather Shoes with Moulded Rubber Soles Chappals with Microcellula Soles and Children's Leather Sandals with Rubber Soles; Phones : 266415-6; Grams : "CARONASAHU."

FORGINGS & CASTINGS

ECHJAY INDUSTRIES PRIVATE LTD.—Office & Factory: Kanjur Village Road, Bhandup, Bombay-78. Phones : 581211 & 581212. Grams : "ECHJAY," Bhandup. Manufacturers of Accessories & Equipments for Machine Tools, General Steel Drop & Upset Forgings—including Forged Flanges; Forged Parts of Diesel Engines & Automobiles; Forged Hand Tools, Hand Hammers, Chisels & Punches, Spanners, Pliers, Jigs & Fixtures, Press Tools, Dies & Punches.

WYMAN-GORDON INDIA LTD.—Manufacturers of Closed Die Steel Forgings for Automobile, Tractors, Tanks, Diesel Engines, Compressors & other Engineering Industries. Factory & Office: Off Pokhran Road, Majiwade, Thana. Phones : 591311/12.

FOUNDERS AND FOUNDRY EQUIPMENT

Amar Brass and Iron Works.—Office and Works : 6, Sewree Cross Road, Bombay 15.

ART METAL WORKS (Estd. 1882).—35-C, Jerajbhoy Street, Foras Road, Bombay 8. Phone: 371692. Brass & Iron Founders, Builders, Hardware Manufacturers and Engineers & Contractors.

Greaves Cotton & Co., Ltd.—1, Forbes Street, Bombay 1.

Guest, Keen Williams Ltd.—Wakefield House, Ballard Estate, Bombay 1.

HARDCASTLE & WAUD MANUFACTURING CO. PRIVATE LTD.—Alice Building, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone : 299292. Tel. Address : "WAUDCO."

Industrial Minerals & Chemical Co.—125, Narayan Dhuru Street, Bombay 3.

J. D. Jones & Co. (Bombay) Ltd.—Rustom Building, Veer Nariman Road, Bombay 1.

JAYEMS ENGINEERING CO.—Great Western Bldg., 1st Floor, 130-132, Apollo Street, Fort, Bombay 1; Engineering, Machinery Merchants & Manufacturers' Representatives, direct Importers of Machine Tools, Wood Working Machinery, Sheet-metal Working Machinery, Welding Equipment, Foundry Equipment etc. Phone : 255891; Grams : "JAYEMS."

METALLICA WORKS PRIVATE LTD.—138/141 Govt. Industrial Estate, Kandivli (West), Bombay 67 (NB). Phones : 693211 (8 lines). Makers of Non-ferrous Metals, Castings, Alloys, Anodes, Lead Sheets and Lead Wool.

Nadirshaw & Bros.—"Silver Talkies" Building, Khetwadi Back Road, Bombay 1.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Nagindas Master Road, P.O. Box No. 1909, Bombay 1; Phones : 251839 & 251882. Also at Calcutta, New Delhi, Madras & Baroda. Manufacturers of Foundry Equipment and Stores—e.g., Cupolas & Mechanical Chargers, Sklenar Reverberatory Furnaces, Electric Induction Melting Furnaces, Ladles, Sand Conditioning & Mechanisation Plants, Moulding Machines, Core Blowers, Shot Blasting Machines, Tumbling Barrels, Die-casting Machines, Sand Testing Instruments, Foundry Fluxes & Chemicals, etc., etc.

P. RATILAL & CO.

Moti Mahal, 43, Dhanji Street, Bombay 3.

Distributors : "COCKILL'S V-Belts" Manufactured by Fenner Cockill Ltd. Blue-Star : V-Link Belting (Tested quality), Endless Solid Woven Canvass/Linen/Terylene Belts. Vari-Speed Belts, Cone Drum Belts, "GRIPIT" Chrome Leather Nylon Sandwich Belts, "UNIQUE" Tyre type flexible Couplings, Crucibles, etc.

Telegrams : "ETERNAL"

'Phone : 325980

Shree Karnatak Agencies.—48, Western India House, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Testeels Limited—Prospect Chambers, Dr. Dadabhoy Naoroji Road, Bombay 1.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay 1.

FOUNDRY FLUXES & STORES

CIBA OF INDIA LIMITED.—Royal Insurance Building, 14, Jamshedji Tata Road, Bombay-1. Phones : 295031-3, 296084-6. Suppliers of Epoxy Pattern and Fooling Resins for Foundries.

Datson Raviraj & Co. (Private) Ltd.—43, Tamarind Lane, Fort.

GARGI INDUSTRIES (Foundry Products Division).—18, Union Park, Chembur, Bombay 71. Works : Kirti Rubber Works Compound, 205/207, Ghodbunder Road, Jogeshwari, Bombay 60. Grams : "GARGI". Phone : 521545.

Industrial Traders.—Bhangwadi, Kalbadevi Road, Bombay 2.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Nagindas Master Road, P.O. Box No. 1909, Bombay 1. Phones : 251839 & 251882. Also at Calcutta, New Delhi, Madras and Baroda. Agents in India for "Fusite" Fused Sodium Carbonate Blocks of Tata Chemicals—a TATA Product, and for "HARMARK" Foundry Chemicals & Fluxes. Also now manufacturing in India "PMC" Foundry Chemicals & Fluxes, under licence from "HARMARK" of England. Also "Flawcheck" Non-Destructive Testing Equipment.

FOUNTAIN PENS IMPORTERS, MFRS. & DEALERS

Dhiraj Pen Manufacturing Co., Ltd.—58, Sir Mathuradas Vasanji Road, Bombay 59.

ENAYATALI & CO.—262-264, Abdul Rehman Street, Bombay 3. Dealers in all Famous makes Fountain Pens, Inks & Spare Parts including "ENACO" Fountain Pens, Inks, Gum, Carbon Papers, Stationers & Fountain Pen Merchants. Phone : 321769. Grams : "ENAYAT."

Kiron & Co., Ltd.—75, Shamshet Street, Bombay 2.

Mhatre Pen & Plastic Industries.—Tulsi Pipe Road, Bombay 28.

PILOT PEN COMPANY (INDIA) PRIVATE LIMITED, THE.—"Catholic Centre," Armenian Street, Madras-1. Sales Office : 343, Abdul Rehman Street, Bombay-3.

R. Punjabi & Co.—37, Mirchi Gate, Bombay 2.

VEEKAY INDUSTRIES.—Manufacturers of "VEEKAY" Quality Pens & Nibs. Agarwal Industrial Estate, Jogeshwari (West), Bombay 60 (NB).

FREIGHT BROKERS

ABRAHAM, SHAH & SONS.—Hague Building, Ballard Estate, Sprott Road, Bombay 1. Phones : 26-1837, 26-2379 & 26-3994.

KANJI JADHAVJI & CO.—Musjid Bridge, Mandvi, Bombay 9. Phones : 323681 & 321412. Grams : "GITA." Freight Brokers, Clearing, Forwarding, Shipping, Landing & Travel Agents.

Lionel Edwards Ltd.—41, Nicol Road, Ballard Estate, Bombay 1.
N. JAMNADAS & CO.—16, Bank Street, Fort. Phones: 253871 (5 lines). Grams: "ENJAYTOURS." Telex: 2549 N. J. Tours Bombay. Freight Brokers and Travel Agents. Recognised by I.A.T.A./I.A.C., Govt. of India & All Steamship Companies. Members: A.S.T.A., U.F.T.T.A., T.A.A.I., P.A.T.A. & Freight Brokers Association.

PITAMBER & CO.—Scindia House, Ballard Estate, Bombay 1. Freight and Chartering Brokers. Brokers to the Scindia Steam Navigation Co., Ltd. Phones: 261066 & 264209. Gram: "SAGARNUR".

Prabhulal L. Pandya & Co.—26, Podar Chambers, S. A. Brelvi Street, Bombay 1.

Purdie & Co.—16, Horniman Circle, Bombay 1.

FUEL INJECTION EQUIPMENT

Bharat Electric & Engineering Corporation.—21, Dalal Street, Fort, Bombay.

EVEREST ENGINEERING CORPORATION.—12, Hornby View Building, Gunbow Street, Fort, Bombay 1. Phone: 261691. Grams: "EXPOCORP." Specialists in Diesel Engines & Spares, Fuel Injection Equipment, Electric Motors, Small Engineering Tools, Workshops Machinery, Graphite Crucibles, Ball & Roller Bearings, Steel Shafting, Clips, etc. (Allied Concern of Messrs. Khimandas Jagumal & Sons).

Harry's Trading Co.—5, Commerce House, N. Master Road, Bombay 1.

HONESTY TRADING CORPORATION.—Beaumont Chambers, Meadows Street, Fort. Phone: 258119. Grams: "HOTRACO." Importers of Fuel Injection Equipment for all types of Diesel Engines and Tractors.

IMANES PRIVATE LIMITED.—94, S. V. Road, Erli, P.O. Box 8002, Bombay 56 (AS); Phone: 571634; Grams: "IMANESCOL". Springs & Forms out of Spring Wires and Strips for your Industry.

Jaishri Manufacturing Corporation.—Motibai Bhuvan, 3-A, Proctor Road, Grant Road, Bombay 7.

Khimandas Jagumal & Sons.—12, Gunbow Street, Bombay 1.

Kumar Commercial Co.—12A, Nadirshaw Sukhia Street, Bombay 1.

MACHINERY SALES CORPORATION.—Bassam House, 11, Military Square Lane, Fort, Bombay 1; Grams: "ENGES-PARES." Phone: 254480; Stockists of Imported Spare Parts for Diesel Engines, Tractors, Road Rollers, Air Compressor & Rock Drills.

Motor Industries Co., Ltd.—79, Dr. Annie Besant Road, Worli, Bombay 18.

Naren Kumar Machinery Co.—Oak Chambers, Oak Lane, Bombay 1.

FUEL TESTING EQUIPMENT

ASSOCIATED INSTRUMENT MANUFACTURERS (INDIA) PRIVATE LTD.—India House, Fort Street, Bombay 1; Phone: 261658; Grams: "AIMILBOM."

FURNITURE DEALERS AND MANUFACTURERS

Amzel Private Ltd.—95K, Oomer Park, Bombay 26.

Bhagat Brothers.—Patel Chambers, Sandhurst Bridge, Bombay 7.

Bharat Furniture Works (Estd. 1921).—Swadeshi Mills Estate, 78, Girgaum, Bombay 4.

Bhawsar Home Furnishers & Decorators.—66, Karwar Street, Mint Road, near G.P.O., Fort, Bombay 1.

Bombay Furniture House.—132, Mutton Street, Null Bazar, Bombay 3.

Brijmohan Banwarilal.—170, Reay Road, Bombay 10.

D. C. BATLIWALA & CO.—12, Bruce Street, Fort, Bombay 1. Phone: 253732. Furniture Hirers.

Ebrahim Jaffer & Co.—208, S. Devji Street, Bombay 3.

E. PEERBHOY & SONS.—The Indian Durries Emporium. Prop.: A. H. Setranjiwala, Indian Durries Emporium, 64, Mohamedali Road, Shahru Castle, Bombay 3. Phone: 323806.

Eyres, E., & Co.—Shyam Nivas, B. Desai Road, Bombay 26.

Interfurn.—361, Dr. Dadaboy Naorji Road, Fort, Bombay 1.

Kamdar Private Ltd.—Opp. Churchgate Station, Bombay 1.

Kantilal Karia & Co.—Furnishers and Interior Decorators, Chowpatty View, Chowpatty, Bombay 7.

Kay & Co.—Khatau Bldg., Bhagat Singh Road, Bombay 1.

Khira Steel Works Private Ltd.—Khira Bhuvan, Sandhurst Bridge, Bombay 7.

McKenzies, Ltd.—Donde Marg, Bombay 15.

MINERVA FURNITURE WORKS.—Furniture Makers and Interior Decorators, 67-71, Queen's Road, opp. Marine Lines Station, Bombay 2. Phone: 319708.

NOORMOHAMEDS.—House of Fine Furniture—(Estd. 1885), 109/A-111/B, Mohamedally Road, Bombay 3. Phone: 325124. Grams: "NOORDECOR." Furnishers, Cabinet Makers & Interior Decorators, Importers & Exporters. Branch at Mahim Causeway.

Raja Furniture Mart.—20, Jawahar Nagar, Rajawadi, Bombay 62.

Royal Carpets & Cane-Furniture Manufacturing Co.—Mani Bhuvan, Hughes Road, Bombay 7.

FURNITURE UPHOLSTERY MATERIALS

FOAM RUBBER COMPANY.—MM Foam Mattresses, Pillows, Cushions, Bus Seating, etc., 50, Old Custom House Road, Bombay 1; Phone: 256989.

GALVANIZERS

Repute Engineering & Galvanizing Works.—Andheri Road, White Bridge, Bombay 72.

SOLEM HARDWARE MART.—155, Nagdevi Street, Bombay 3. Phones: 326896 & 326173; Grams: "QUICKFIRE". Works: 50, Nesbit Road, Bombay 10; Phone: 373909, Galvanising carried out on all kind of mild steel and Cast Iron Products very efficiently by hot Dip Process and to B.S.S. & Admiralty Specifications. Also Government & Railway Contractors.

GARAGE TOOLS & EQUIPMENT

DODGE & SEYMOUR (INDIA) PRIVATE LTD.—Krupanidhi, 2nd Floor, 9, Wittet Road, Ballard Estate, Bombay-1 BR. Phones: 263674 & 265479. Grams: "EXIMCO". Branches: Calcutta, New Delhi, Madras, Cochin, Bangalore, Secunderabad.

HEMANT TOOLS TRADING CO.—33, Bibijan Street, Bombay 3. Grams: "LACING". Phone: 321174. Importers & Stockists of Garage Tools, Fibre Sheets, Rods, Diamond Dressing Tools, Precision Tools etc.

TURNER, HOARE & COMPANY LIMITED.—Head Office: Wavell House, 15, Graham Road, Ballard Estate, Bombay 1. Phone: 262711 (8 lines); Cable: "ENDEAVOUR"; Code: ACME & BENTLEY'S. TELEX. 2282; Offices: Delhi, Calcutta & Madras.

GARDENING REQUISITES

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: "ALERTDEAL."

Dattatraya Industries Private Ltd.—Sitaram Building, Crawford Market, Bombay 1.

Dhani Ram & Sons.—236, Yusuf Meherally Road, Bombay 3.

PALEKAR & CO. (Estd. 1870).—Sitaram Building, near Crawford Market, Bombay 1. Phone: 262236. Grams: "RUDRA." Flower & Vegetable Seeds, Lawn Mowers, Garden Tools, Insecticides & Fertilizers. Specialists in Garden Lay-outs.

Reliance Trading Co.—Vithal Sayana Building, Lohar Chawl, Bombay 2.

GAUGES & INSTRUMENTS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: "ALERTDEAL."

Evergreen Corporation—Lohar Chawl, R. Champo Path, Bombay 2.

Fleming, John & Co., Private Ltd.—P. B. No. 76, Bombay 1.

Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.

Greaves Cotton & Co., Ltd.—1, Forbes Street, Bombay 1.

Jalramdas & Sons.—163, Narain Dhuru Street, Bombay 3.

M. Somnath & Co.—94, Lohar Chawl, Bombay 2.

Vasi Shums & Co. Private Ltd.—Vasi Bldg., Nagdevi Street, Bombay 3.

GEARS MFRS. & GEAR CUTTING SPECIALISTS

GAJRA GEARS.—Elve Chambers, Green Street, Bombay 1. Phones: 250074 & 250075. Grams: "ELBUSCON." Works: Station Road, Dewas (M.P.). Manufacturers of all types of Precision Gears, Spur, Helical, Spiral Internal, External, Worms, Worm Wheels etc. upto 32" Diameter.

PRECISION GEARS PRIVATE LIMITED.—Regd. Office: Ticcicon House, Dr. E. Moses Road, Bombay-11. Phone: 377381. Grams: "PIJIAR." Bombay-6. Factory: B/16, Industrial Estate, Indore (M.P.). Phone: 4072. Grams: "PIJIAR". Manufacturers of: Gears (Helical, Spur & Worm), Rivets (Solid, Semi-tubular and tubular for Brakelinings, automobile body building, etc. from ferrous and non-ferrous metals), and Silver Contacts.

Supreme Industrial Works.—196/K, Gaiwadi, Girgaum, Bombay 4.

GELATINES & COSMETIC RAW MATERIALS

Phones: 322752-533462

Grams: "JAMKEM"

JAAM CHEMIE-COLOUR CO.*Sole Representatives :***LEINERS'**

GELATINES, Pharmaceutical & Photographic Bone & Hide GLUE, Technical GELATINES (Sheets-Powder).

WHITTAKER'S

COSMETIC RAW MATERIALS—Food Colours, Titanium-Dioxide & other USP. Chemicals & Vitamins. Exporters of Minerals & Guar Gum-splits—Powder.

15, Shree Ram Market, Vadgadi, Bombay 3 (B.R.)

GENERAL TOBACCONISTS**BYRAM & CO.**—Wakefield House, 11, Sprott Road, Ballard Estate, Bombay.**GERMAN SILVER UTENSILS MFRS.****LALLUBHAI AMICHAND PRIVATE LTD.**—Proprietors: **Dun Aluminium Factory**, 225/27, Tardeo Road, Bombay 7. Manufacturers of "Queen" Brand Aluminiumwares & "Queen" Brand Stainless Steel Utensils and other non-ferrous metalware. Phones: 377154 (4 lines), 333987 & 333988, Telex: 011-2464. Grams: "CYCLEBRAND."**GLASS****HARGOVIND DHARAMSI**

35, Mirza Street, Bombay-3.

DEALERS IN :

Glass Sheets, Plate Glass, Figured Decorative Mirrors, Table Glasses, Show-case Glasses, Toughened Guage Glasses, Picture Framing, Door Panels, Glass Cutters and everything in Flat Glass.

Also Mirror Manufacturers.

Phone: 325228. Grams: "PLATEGLASS".

ABDOOLALLY NOORBHOY.—122-124, Abdul Rehman Street, Bombay 3. All kinds of Glass & Plywood Merchants. Government & Railway Contractors. Phone: 327156. Grams: "PATTYMART." Works: 248-A, Duncan Road, Bombay 8. Phone: 376759.**ALIBHOY KADIBHOY KACHWALLA**

(Estd. 1922)

Importers & Stockists of Welding Glass & all kinds of sheet and Plate Glass.

Address: 84, Abdul Rehman Street, Bombay-3.

Grams: "BELGLASS" Phone: 326803

Daubhoy M. Tayebally.—110, Abdul Rehman Street, Bombay 3.**M. A. KACHWALLA & SONS.**—97-99, Dhanji Street, Bombay 3. Phone: 324395. Grams: "DIADEM". Stockists of all kinds of Sheet Plate, Wired Mirrored and Figured Glasses. Manufacturers Representatives for "Glaset" Toughened Safety Glass. Stockists: **FORMICA DECORATIVE LAMINATES.****Mahomedally Valiji Arsiwala.**—76, Abdul Rehman Street, Bombay 3. **Maksons.**—309, Swami Vivekananda Road, Santa Cruz, Bombay 54.**KESHOWDAS HASSANAND KARACHIWALA**

Direct Importers & Stockists of all kinds of Sheet & Plate Glass, Hardboards, Plywood, Diamond Glaziers, Motor Glass etc.

Address: 256, Yusuf Meherally Road, Bombay-3.

Grams: "KESHOGLASS"

Phone: 321855 Office

471641 Residence

The Safeglas

Grams: DIADEM

Phones: { 324395
327841**Corporation Private Ltd.***Member :*

INDIAN STANDARDS INSTITUTION

Manufacturers of

"GLASEF" Brand Toughened SAFETY GLASS used in Windows of Buses, Automobiles, Cars, Furniture, Glazing-Windows, North Light Fittings, etc.

Manufactured as per BSS 857 & IRS 2-6-61.

DHANJI STREET, BOMBAY 3

SAMIR GLASS TRADERS*Dealers in :*

All kinds of Sheet and Plate Glass, Figured, Wired, Safety, Vetrolite, Opaque Glass and Mirrors, Hard Board and Glass Cutters.

SPECIALISTS IN WELDING GLASSES

21-23, Dhanji Street, Parsi Gally, Bombay-3.

Gram : SAMIRGLASS.

{ Phone : 326785
Resi. 522778**Salemahomed Padamsee & Co.**—141, S. Devji Street, Bombay 3.**Tek Trading Corporation.**—83, Abdul Rehman Street, Bombay 3.**Tyebali Ebrahimjee & Co.**—166, Abdul Rehman Street, Bombay 3.**V. GOPALDAS & CO.**—299, Krishna Niwas, Yusuf Meharali Road (Masjid Bunder Road), Bombay 3. Phone: 324364. Grams: "VICTORGLASS." Wholesale & Retail Dealers in Sheet Glass of all Thickness, Mirrors, Safety Glass, Wire Glass, Toughened Glass and all other kinds of Imported Glass.**Yusufali Goolamhoosen Arsiwala.**—105, Abdul Rehman Street, Bombay 3.**GLASSWARE MFRS.****AJIT GLASS WORKS PRIVATE LTD.**—Office: 99, Haji Ahmed Devji Bldg., 2nd Floor, Mohamedally Road, Bombay 3. Phone: 324702. Grams: "AJITWORKS". Factory: Ghodbunder Road, P.O. Jogeshwari, Bombay 60. Phone: 52584 & 571109. Manufacturers of Pressed ware, Glass Tumblers, Glass Jars, Bottles of all kinds suitable for Pharmaceutical, Cosmetic, Ink, Milk, Squashes and Aerated Water Industry, etc.**VAZIR GLASS WORKS LTD.**—Manufacturers of Excellent quality glass containers on fully automatic machines. J. B. Nagar, Andheri (East), Bombay 59. Phones: 57-335, 573336. Grams: "VAZIRGLASS".

Chanilal Khanna & Co.—Sarasvati Nivas, Thakurdwar Road, Bombay 2.
 International Chemical Co.—435, Bapat Marg, Bombay 16.
 Oriental Import & Export Agency.—52, Shri Krishna Nivas, New Silk Bazar, Bombay 2.
 Salemahomed Padamsee & Co.—141, Chukla Street, Bombay 3.

GLASSWARE MFRS. & MERCHANTS

All India Glass Works Private Ltd.—326, Bail Bazar, Bombay 70.
 Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Opp. Hongkong Bank, Bombay 1.
CRYSTAL HOUSE.—99C/D, Mohamedali Road, Bombay 3. Phone: 327030. Dealers in Glassware, Crockery, Enamelware, Kitchenware, Cutlery, Plasticware, Thermos Flasks, Presentation Articles, etc.
 Embi Desai & Co.—Office: Opp. Hongkong Bank, Cawasji Patel Street, Bombay 1.
 Gandhi Laherchand Nanchand.—182, Sheriff Devji Street, Bombay 3.
 Gets Bros. & Co.—Western India House, Sir Phirozshah Mehta Road, Bombay 1.
 M. Daldas & Sons.—190, Shamaldas Gandhi Marg, Bombay 2.
MAHALAKSHMI GLASS WORKS PRIVATE LTD., THE.—Dr. E. Moses Road, Jacob Circle, Bombay-11. Grams: "RACEVIEW." Mfrs. of all kinds of bottles for Cosmetics, Aerated Water, Milk and Pharmaceuticals including Penicillin vials. Phone: 373424.
 Moosa Omer & Co.—Mahomedally Road, Bombay 3.
 Saify Glass Palace.—Ebrahim Mansion, Mohamedalli Road, Bombay 3.
 Salemahomed Padamsee & Co.—141, S. Devji Street, Bombay 3.
 Scientific Instrument Co., Ltd.—240, D. N. Road, Fort.
 Talwalker Brothers Private Ltd., W. R.—Lentin Chambers, Dalal Street, Bombay 1.
 United Glass Works Private Ltd.—326, Arthur Road, Old Kurla, Bombay 72.
 Vazir Glass Works, Ltd.—J. B. Nagar, Sir Mathuradas Vasanji Road, Bombay 59.

GLOVES MANUFACTURERS

ASHA RUBBER INDUSTRIES.—Agra Road, Opp. Ralli Wolf, Mulund, Bombay-80.

GLOVES & GOGGLES FOR INDUSTRIAL WORKERS

PRAMODKUMAR & CO.—Prospect Chambers, 4th Floor, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1; Phone: 255231 (Office) and 573874 (Res.); Dealers in 100% Acid and Alkali Proof Light and Heavy duty Industrial Rubber Gloves. Also Dealers in Cloth, "DUCKBACK" Rain Coats & Gum Boots, Umbrellas, Tarpaulins, Winter-wear & Footwear. Suppliers to Industrial Concerns, Govt. Depts. and Railways.
 Trade (India) Corporation.—58, Mohamedali Road, Bombay 3. Phone: 324557. Grams: "TINDICO". Stockists of Welding Accessories, Wire Brushes & Engineering College requisites.
VISHWA BHARATI TRADING CO.—45, Mint Road, Post Box No. 1052, Bombay 1; Phone: 266371; All Depts. Grams: "VIBHACO." Branch: G.P.O. Box 2628, Calcutta 1. Phone: 336680. Manufacturers of Industrial Safety Equipments, such as Goggles, Gloves, Dust Masks, Gas Protection Respirators, Aprons, etc.

GRAPHITE

REMEX CORPORATION

50/7, Tardeo Air-Conditioned Market, Tardeo, Bombay-34.

Sole Distributors "SMELTO" brand Carbon bonded Crucibles for Maharashtra, Madhya Pradesh, Mysore & Goa.

Also Graphite/Plumbago Powder, Pencils, Paint Drycell Graphite, etc.

Grams: CRUCIGRAH Phone: 374761

GREETING CARDS

GANDHI STATIONERY MART.—165, Bazargate Street, Bombay 1. Manufacturers of Comet Visiting, Invitation, Greeting, Wedding Cards, Inland/Air Letters, Calendar & stockists of Rainbow Printing Ink. Phone: 26-5248.

SHABBAR TRADING CORPORATION.—212, Abdul Rehman Street, Bombay 3. Manufacturers of Greeting Cards, such as X'mas, New Year, Diwali, Idd, Sankranti, Birthday, Wedding Invitation and All India View Cards. Phone: 321893. Grams: "GREETCARDS."

Taj Printing Works.—46-A, Cawasji Patel Street, Fort, Bombay 1.
 Vakil & Sons (Private) Ltd.—Narandas Building, Sprott Road, 18, Ballard Estate, Bombay 1.

VALABDAS TIRATHDAS.—60, Kamla Nehru Cross Road, Kandivli, Bombay 67. Grams: "GREETINGS," Kandivli, Bombay 67. Manufacturers of Greeting Cards.

GRINDING MEDIA

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.—Office: Pandyan House, 309, Frere Road, Bombay-1. Phone: 261523. Grams: "GULDASTA." Factory: 38, Powai Lake Road, Saki Naka, Kurla, Bombay-70. Phone: 582681/2. Mfrs. of Steel & Alloy Balls, Grinding Media & Automobile Parts, Miniature Balls.

GRINDING & PULVERISING (POWDERING)

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Bombay 1.
 Batliboi & Company Private Limited.—Regd. Office: Forbes Street, P.Box 190A, Fort, Bombay-1 (BR.). Phones: 259611 (6 lines), Grams: BATLIBOICO Tele.: 011-2284. City Branch: "BATLIBOI HOUSE", 59/61, Nagdevi Cross Lane, Bombay-3 (BR.). Branches: Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, Inlore, Jaipur, Kanpur, Ludhiana, Madras, New Delhi, Patna, Secunderabad, Vijayawada, Associate: Bangalore 2. Resident Representatives: Bhopal, Bhubaneswar, Rajpur, Rajkot, Bharat Pulverising Mills Private Ltd.—38A, Sayani Road, Bombay 25.
 D. Kaniyal & Co.—45, 3rd Cavel Cross Lane, Bombay 2.
 Gujarat Clay Mills.—246, Reay Road, Bombay 10.
 Roberts, McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Bombay 1.
 Standard Pulverising Co.—Atlas Mills Compound, P. D'Mello Road, Bombay 10.
 William Jacks & Co., Ltd.—Bharat House, Apollo Street, Bombay 1.

GUMS WHOLESALERS

Bombay Kiryana Industries.—204, Samuel Street, Vadgadi, Bombay 3.
 Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay.
 Chandulal & Co., Lakhwala.—313, Samuel Street, Vadgadi.
DEVIDAS VIRCHAND.—22-26, Dariasthan Street. Phone: 325284. Grams: "ENGUM." Exporters of Gum Karaya & Dealers in Saffron, Cassia, Cloves & Spices.
 Gopaljee & Co.—218, Samuel Street, Bombay 3.
 Hashambhoy Aloo Mahomed & Son.—Dostmahomed Building, Nishanpada Road, Bombay 9.
 Javeri Traders.—P.O. Box No. 1977, Lakhani Building, 34, Cawasji Patel Street, Fort, Bombay 1.
 Kirtikumar Chandulal & Co.—50, Essaji Street, Bombay 3.
 Lalit Kumar & Co.—86, Kazi Sayed Street, Bombay 3.
N. DEVIDAS & CO.—44, Dariasthan Street, Bombay 3. Phone: 325284. Grams: "ENGUM." Dealers in all sorts of GUMS, Saffron, Cassia, Cloves & Spices.
 Narandas Kesurdas & Sons.—222, Samuel Street, Bombay 3.
 Premji Haridas & Co.—170, Sant Tukaram Road, Bombay 9.
 Sising Materials Co., Ltd.—Jeroo Building, Mahatma Gandhi Road, Bombay 1.
 Stewart's Laboratories.—319, Karak Bazar, Bombay 9.
 Valabhdas Tejpal.—Samuel Street, Bombay 3.
 Varjiwandas Hirjee & Co.—240, Samuel Street, Bombay 3.
 Vasantlal Dadlal & Co.—215/17, Samuel Street, Vadgadi, Bombay 3.
VIVEKANAND MILLS (SAKI).—Saki Vihar Road, Bombay 70. Mfrs. of Foodgrade, Plant Technical Grade & Commercial Grade of Gum Guar. Phones: 581130 (Factory) and 323334 (Office).

GUNNY BAGS, HESSIAN CLOTH & TWINE MERCHANTS

Korji Damji.—Oosla Syed Mukri Street, Bombay 9.

MORARJI PERAJ & CO., TALPATRIWALA.—138, Yusuf Meher Ali Road (Musjid Bunder Road), Bombay 3. Phone: 322352 (Office); Partner: Mr. J. S. Thakker; Phone: 473944 (Res.); Grams: "TALPATRI." Manufacturers of "ELEPHANT" Brand 100 per cent Waterproof Tarpaulin & Polythene and Paperlined Hessian Bags. Wholesalers: Hessian Cloth, Canvas & Jute, Twine. Gunny Bags, Waterproof Paper & Eyelets, etc.

Shamji Kalyanji & Co.—71, Bhandari Street, Bombay 3.

HACKSAW BLADES

Anglo American Marine Co. Ltd.—98, Subhas Road, Bombay 2.

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS." Phone: 323193. Stockists of Elephant Brand Chain Pulley Blocks.

HANDLOOM & POWERLOOM ACCESSORIES

KRISHNA TEXTILE STORES.—19/21, Hamam Street, Fort, Bombay 1. Grams: "DISCIPLINE." Phone: 250048. Mill & Handloom Stores Suppliers.

Indo-British Trading Bureau.—Horniman Circle, Bombay 1.

HANDLOOM TEXTILES

E. PEERBHOY & SONS.—The Indian Durries Emporium. Prop.: A. H. Setranjiwala, Indian Durries Emporium, 64, Mohamedali Road, Shahru Castle, Bombay 3; Phone: 323806.

HARD BOARDS

Anil Hardboards Ltd.—Lakshmi Insurance Building, Sir Phirozeshah Mehta Road, Fort, Bombay 1.

Hindustan Plywood & Metal Depot.—301, Y. Meheralli Road, Bombay 3.

Mahomedali Valiji Arsiwala.—76, Abdul Rehman Street, Bombay 3.

NASH & CO.—103, Abdul Rehman Street, Bombay 3. Phone: 324968. "Jolly" Hardboards, Insulux Insulation Boards & Ceiling Tiles and Formi a, Decorative Laminates.

Samir Glass Traders.—21, Dhanji Street, Bombay 3.

Tek Trading Corporation.—139, Abdul Rehman Street, Bombay 3.

Yusufali Goolam Hoos Arsiwala.—105, Abdul Rehman Street, Bombay 3.

HARDWARE DEALERS

A. H. Brothers & Co.—26, Sarang Street, Bombay 3.

A. M. MOTIWALLA & CO.—213, Nagdevi Street, Bombay 3. Phone: 326760. Shipchangers, Engineering Tools, Hardware & Pipe Fittings Merchants and general stores suppliers.

Abbasbhoy Kaderbhoy & Co.—97, Bhajipala Lane, Bombay 3.

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: "ALERTDEAL".

Abdulhusain Esoofally Contractor.—93, Babu Khote Street, Bombay 3.

Abdulhusain Kamrudin.—183, Janjkar Street, Khokha Bazar, Bombay 3.

Abdulla A. Baker & Co.—89, Bhajipala Street, Bombay 3.

Abdullahai Faizullahai Ltd.—62, Sarang St., Bombay 3.

Aeme Manufacturing Co., Ltd.—Construction House, Wittet Road, Ballard Estate, Bombay 1.

Adamji Lookmanji (Iron & Steel) Ltd.—Rahimtoola House, Homji Street, Bombay 1.

Ahmedali Jivabhai & Co.—86, Lohar Chawl, Bombay 2.

Akbarally, F. H., & Co.—58, Bhajipala Lane, Bombay 3.

Akbarally Mohamedally & Co.—316, Abdul Rehman Street, Bombay 3.

Alcock Ashdown & Co., Ltd.—Defence Works, Mazagaon, Bombay 10.

Alladin Virjee Nathani.—108, A.B.C. & D. Govt. Industries Estate, Bombay 67.

Allied Engineering & Trading Co.—Asian Building, Nicol Road, Bombay 1.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Bombay 1.

Associated Machine & Tool Co.—130, N. Master Road, Bombay 1.

Baker, A. M., & Co.—218, Nagdevi Street, Bombay 3.

Balmer, Lawrie & Co., Ltd.—5, Graham Road, Bombay 1.

Bashmal Kanahyalal.—124, Narayan Dhuru Str et. Bombay 3.

Batilbol, C. J., & Co.—319, D. N. Road, Bombay 1.

Delhi, Patna, Secunderabad, Vijayawada. Associate: Bangalore 2. Resident Representatives: Bhopal, Bhubaneswar, Raipur, Rajkot.

Beardsell, W. A., & Co., Ltd.—Dhan Nur Bldg., Sir Phirozshah Mehta Road, Bombay 1.

Bharat Engineering Stores.—113, Nagdevi Street, Bombay 3.

Bhukhanvala & Sons.—Medows House, Nagindas Master Road, Bombay 1.

Bombay-Burma Hardware Store.—128, Nagdevi Street, Bombay 3.

Brady, W. H., & Co., Ltd.—12, Veer Nariman Street, Bombay 1.

Brothers, J. D.—29-33, Lohar Street, For, Bombay 1.

Budhabhoy Noorbhoy & Co.—Vill Vikas Estate, Off Aarey Colony Road, Bombay 62.

Calcutta Iron & Steel Co., Ltd.—68/D Mohamedalli Road, Bombay 3.

C. Amichand & Co.—46A, Abdul Rehman Street, Bombay 3.

C. Bole & Co.—61, Narayan Dhuru Street, Bombay 3.

Central Machine Tools Agency.—53, Nagdevi Cross Lane, Bombay 3.

Chandulal & Co.—Kathawalla, 11, Kazi Syed Street, Bombay 9.

Chandulal Narandas.—96, Kika Street, Bombay 4.

Chasman & Co.—6, Sir Phirozshah Mehta Road, Bombay 1.

Chhaganlal & Co.—Carnac Bunder, Bombay No. 9.

Chimanlal Desai & Co.—Gool Mansion, Homji Street, Bombay 1.

Chimanlal Vrajilal & Co.—Loha Bhavan, P. D'Mello Road, Bombay 9.

Choksi, H., & Co.—106, Nagindas Master Road, Bombay 1.

C. P. Doshi & Co.—Bombay Mutual Road, Bombay 1.

CURRIM, E. A., PRIVATE LTD.—Hardware Merchants & Ironmongers, 97, Apollo Street, Fort, Bombay 1. Phone: 258116. Grams: "CAIM." B anch at Calcutta.

Desai, M. S., & Co.—77, Nagdevi Cross Lane, Bombay 3.

DESAI TUBE & HARDWARE MART.—41, Nagdevi Cross Lane, Bombay 3.

Deviprasad Khandelwal & Co., Ltd.—Loha Bhavan, P. D'Mello Road, Bombay 9.

Dewanchand Hansraj.—105, Narayan Dhuru Street, Bombay 3.

Dewanchand Budhumall.—58, Bibijan Street, Bombay 3.

Drewet Chowna & Co.—123, Nagindas Master Road, Bombay 1.

Dubash Freres & Co.—26, S. A. Brelvi Road, Bombay 1.

Duncan Stratton & Co. Ltd.—29, Bank Street, Bombay 1.

Eastern Tube & Hardware Mart.—123, Narayan Dhuru Street, Bombay 3.

Esufally Adamji & Co.—134, Nagdevi Street.

Esufally Kamrudin.—34, Khokha Bazar, Bombay 3.

Fazalbhay & Bros.—26, Sarang Street, Bombay 3.

Fidaalli Gulamali.—163, Janjkar Street, Bombay 3.

F. H. Akbarally & Co.—58, Bhajipala Lane, Bombay 3.

Fleming, John & Co., Ltd.—Sukhadwala Building, 21, Bastion Road, Bombay 1.

Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Bombay 1.

Garlick & Co.—Haines Road, Bombay 1.

General Trading Corporation.—36, Tamarind Street, Bombay 1.

General Tubes Pvt. Ltd.—142, Nagdevi Street, Bombay 3.

Globe Stores Co., The.—Sitaran Building, D. N. Road, Bombay 1.

Gowardhanlal Sethi & Sons.—159, Narayan Dhuru Street, Bombay 3.

Greaves Cotton & Co., Ltd.—1, Forbes Street, Bombay 1.

Greentose Corporation (India).—24, Dalal Street, Bombay 1.

Gulamhusain Sulemanji & Co.—24, Kika Street, Bombay 2.

Hardware & Sundries Importing Agency.—19, Bank Street, Bombay 1.

Harijmal Kidarnath & Co.—Nagdevi Cross Lane, Bombay 3.

Hatimbhoy, A., & Co.—New Iron Market, Carnac Bridge, Bombay 9.

Hatimbhoy Goolamhussein & Bros.—193, Nagdevi Street, Bombay 3.

HEMANT TOOLS TRADING CO.—33, Bibijan Street, Bombay-3. Grams: "LACING". Phone: 321174. Stockists of "SWAN" Brand Hacksaw frames & other Hardware material.

Jeptoola Noorudin & Co.—152, Nagdevi Street, Bombay 3.

Hairamda So t.—163, Narayan Dhuru Street, Bombay 3.

Kermani & Son, F. B.—132, Sarang Street, Bombay 3.

Kishorechand Omprakash.—101, Narayan Dhuru Street, Bombay 3.

Lookmanji Moosaji.—Diamond Building, Lohar Chawl, Bombay 2.

Machine Tools & Implements.—93, Narayan Dhuru Street, Bombay 3.

Maneckchand Jivraj & Co.—Old Iron Jetha, Bombay 10.

Marine & Mills Agencies.—197, Nagdevi Street, Bombay 3.

M. Dawoodbhay & Bros.—Harawalla Bldg., Lohar Chawl, Bombay 2.

M. Jadavji.—36, Nagdevi Cross Lane, Bombay 3 (BR).

Mehta & Co., S.—Anees Chambers Annexe, Tilak Marg, Bombay 1.

Mehta Textile & Hardware Stores.—39, Narayan Dhuru Cross Lane, Bombay 3.

Modern Machine Tools Co.—88, Nagdevi Cross Lane, Bombay 3.

Modern Mill Stores.—109, Chimna Butcher Street, Bombay 3.

Molooobhoy, Ahmed S., & Sons.—281, Nagdevi Street.

Nanlal Ambalal & Co.—69, Nagdevi Street.

Naterwalla S. R.—Bombay Mutual Annexe, Gunbow Street, Bombay 1.

Nav-Bharat Brassware Mfrs.—54, Sarang Street, Khokha Bazar, Bombay 3.

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

Ochhavial, R., & Co.—86, Nagdevi Street, Bombay 3.

BOMBAY HARDWARE TRADERS

79, Narayan Dhuru Street, Masjid Bunder Road, Bombay-3.

Phone: 327153. Grams: 'SISTACHAR'

Authorised Distributors for 'John Baker' 'Hindustan' Scissors brands Steel Files, Nettlefolds Screws, Bolts & Nuts, every kind of saws, Measuring & Precision Tools, and other Hardware materials.

Batilbol & Company Private Limited.—Regd. Office: Forbes Street, P. Box 190A, Fort, Bombay-1 (BR.). Phones: 250011 (6 lines). Grams: BATLIBOICO. Tele: 011-2284. City Branch: "BATLIBOI HOUSE". 59/61, Nagdevi Cross Lane, Bombay-3 (BR). Branches: Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, Indore, Jaipur, Kanpur, Ludhiana, Madras, New

ORIENT PAINT & HARDWARE MART

67, C. P. Tank Road, Bombay-4 (BR).

Phone: 333768 Grams: "ADHIKAR", Bombay.

Importers, Agents, Stockists, Suppliers, Dealers in Iron, Hardware, Bolts, Nuts, Screws, Specialists in "Steel Wood Screws." Stockists of Nettlefolds Screws, Rivets, G.K.W. Bolts & Nuts. Agents for National Screws. Specialists in Manufacturing of Hardware & Machine Parts to Customers Specification, Blue Prints or Samples.

P. B. SHAH & CO.—58, Lohar Chawl, Bombay 2; Dealers in Finest Quality Engineering Tools, Files, Drills, Dies & Taps, Metal Cutting & Elect. Tools, Precision & Measuring Tools, etc. Phone: 311447. Residence: 471110.

Paramount Hardware Mart.—Loha Bhavan, P. D'Mello Road, Bombay 9.

Paramount Tools Company.—5, Narayan Dhuru Cross Lane, Bombay 3.

Parekh, P. S., & Co.—108, Nagdevi Street, Bombay 3.

Patel, U. D., & Co.—11, Bank Street, Building, Bombay 1.

Pavri, J. K.—Karim Chambers, Hamam Street, Bombay 1.

P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3.

R. Panchal Works.—37A, Sindhi Lane, Nanubhai Desai Road, Bombay 4.

Rainbow Iron Works.—113, Abdul Rehman Street, Bombay-3.

RAMCHAND MATHRADAS AGGARWAL.—30, Khokha Bazar, Sarang Street, Bombay 3. Phones: 326075 & 328942. Grams: "PIPEDEE." Hardware, Tools, Fittings, Pipes, Compressors, Machinery Implements, Iron & Steel, etc.

Ramesh Trading Corporation.—51, Nagdevi Cross Lane, Bombay 3. **Rasiklal, K., & Co.**—Mehta Building, Nagindas Master Road, Bombay 1.

Rasiklal Shah & Co.—93, Narayan Dhuru Street, Bombay 3.

Real Paint & Hardware Mart.—105, C. P. Tank Road, Bombay 4.

Repute Engineering Co.—165, Narayan Dhuru Street, Bombay 3.

Richardson & Cruddas Ltd.—Byculla Iron Works, Bombay 8.

Sachin & Co.—25, Bank Street, Bombay 1.

Sanghani & Co.—180, Abdul Rehman Street, Bombay 3.

Shums Trading Agency.—26, Tava Lane, Bombay 3.

Shantilal H. Kamdar & Co.—59, Bibijan Street, Bombay 3.

Shivdayal Bilbhaderdas.—96, Narayan Dhuru Street, Bombay 3.

Sriram & Co.—97, Narayan Dhuru Street, Bombay 3.

Sivramkrishnan, M.—Hazil Manzil, 82-86, Abdul Rehman Street, Bombay 3.

Soho House.—Jal Mahal Estate, Lohar Chawl, Bombay 2.

Solem Hardware Mart.—155, Nagdevi Street.

Somnath, C., & Co.—84, Nagdevi Cross Lane, Bombay 3.

Standard Metal Works Pvt. Ltd.—17, Falkland Road, Tardeo Bridge, Bombay 34.

Standard Tube Co., Ltd., The.—123, Nagdevi Street, Bombay 3.

Stanley Works.—Lakshmi Building, Sir Phirozshah Mehta Road, Bombay 1.

Talib & Co.—104, Nagdevi Street, Bombay 3.

Textile Stores & Hardware Mart.—127, Narayan Dhuru Street, Bombay 3.

Thakorlal & Co.—47, Nagdevi Cross Lane, Bombay 3.

T. M. Tyabji & Brothers.—Hamam House, 32-38, Hamam Street, Fort.

Trade (India) Corporation.—58, Mohamedalli Road, P.O. Box No. 3231, Bombay.

Trivedi & Co.—Navsari Chambers, Outram Road, Bombay 1.

Turner, Hoare & Co., Ltd.—Gateway Building, Apollo Bunder, Bombay 1.

Tyebally Dawoodji.—87, Sarang Street, Bombay 3.

U. D. Patel & Company.—11, Bank Street, Fort, Bombay 1.

Universal Trading Co.—Mohamedli House, 79, M. Azad Road, Bombay 3.

Vinod Mehta & Co.—Yusuf Bldg., M. G. Road, Bombay 1.

HARDWARE IMPORTERS

A. A. MORBIWALA & CO.—109/111, Abdul Rehman Street, Bombay 3. Phone: 323280. Grams: "VARNISH" (MD). Suppliers of stitching Wires & Wires of all kinds.

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: "ALERTDEAL."

ASGARALI NURUDDIN & CO. (ESTD. 1916).—95, Nagdevi Street, Bombay 3. Phone: 322609, Res. 532753. Sanitary-ware, Hardware & Pipe Fittings Merchants.

HINDUSTAN TOOLS & ENGINEERING CO.—P.O. Box No. 2311, Picket Cross Lane, Bombay 2. Phone: 318965. Grams: "DRILLTAPS." Stockists of Engineering Tools, Hardware, Millgin Stores & Stainless Steel Pipe-fittings.

Industrial Development Corporation.—73, Bank of Baroda Building, Phalton Road, Bombay 1.

International Tools & Hardware Stores.—84, Kika Street, Bombay 4. **Jairamdas & Sons.**—163, Narain Dhuru Street, Bombay 3. **James Tools & Hardware Co.**—109, Nagdevi Street, Bombay 3. **Kantilal Bhogilal & Co.**—68, Nagdevi Cross Lane, Bombay 3. **Mangaldas & Sons.**—Lentin Chambers, Dalal Street, Fort, Bombay 1.

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone Nos.: 323023 and 327058. Grams: "TENDERERS."

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

Shah Trading Corporation.—Oomrigar Building, opp. Crawford Market, Bombay 3.

Shalebhoj Tyebjee & Sons.—12, Bruce Street, Bombay 1.

HEAT EXCHANGERS

Automobile Ancillaries of India Private Ltd.—Manufacturers of "MATCHLES" Radiators, Cores, & Heat Exchangers for Automobile, Industrial & Agricultural Engines. Office & Factory: Kandivli Industrial Estate, M. G. Road, Bombay-67. Telephones: 693261 & 693262. Cable: "CLEAR TUBE," Kandivli—Bombay-67. "CLEAR TUBE," Bombay-1.

HEAT RESISTING PAINTS

STAR PAINT & OIL INDUSTRIES.—Crescent Chambers, 56, Tamarind Lane, Bombay 1; Manufacturers of Industrial & Marine Paints & Synthetic Enamels; Specialists in Silvel Aluminium Paint Multi-purpose, Heat Aluminium Paint, High Temperature Heat Resisting upto 1,2000 F. & Rubberex Rubber Paint (for Chemical Resisting). Grams: "STAR-PAINT." Phones: 253493, 297704.

HEAT TREATMENT AND METAL PROCESSING PRODUCTS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Bombay 1.

DATSON RAVIRAJ & CO. (PRIVATE) LTD.—43, Tamarind Lane, Fort, Bombay 1.

HARDCASTLE & WAUD MANUFACTURING CO. PRIVATE LTD.—Alice Building, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 299292. Grams: "WAUDCO."

HARDCASTLE, WAUD & CO., PRIVATE LTD.—Alice Buildings, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.

Imperial Chemical Industries (India) Pvt. Ltd.—Crescent House, Wittet Road, Bombay 1.

Pioneer Equipment Co. Private Ltd.—139, Medows Street, Fort, Bombay-1.

HESSIAN CLOTH, CANVAS, JUTE & TWINE, ETC.

MORARJI PERAJ & CO., TALPATRIWALA.—138, Yusuf Mehar Ali Road, (Musjid Bunder Road), Bombay-3. Phone: 322352 (Office); Partner: Mr. J. S. Thakker; Resi. Phone: 473944; Grams: "TALPATRI"; Manufacturers of "ELEPHANT" Brand 100 per cent Waterproof Tarpaulin & Polythene and Paper Lined Hessian Bags. Wholesalers Hessian Cloth, Canes & Jute, Twine Gunny Bags, Waterproof, Paper & Eyelets, etc.

HOISTING MACHINERY (LIFTS & HOISTS)

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: "ALERTDEAL."

Batliboi & Company Private Limited.—Regd. Office: Forbes Street, P. Box 190-A, Fort, Bombay-1 (BR.). Phones: 259611 (6 lines). Grams: BATLIBOICO. Telex. Tele: 011-2284. City Branch: "BATLIBOI HOUSE", 59/61, Nagdevi Cross Lane, Bombay-3 (BR). Branches: Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, Indore, Jaipur, Kanpur, Ludhiana, Madras, New Delhi, Patna, Secunderabad, Vijayawada. Associate: Bangalore 2. Resident Representatives: Bhopal, Bhubaneswar, Raipur, Rajkot.

CONSOLIDATED ENGINEERING EQUIPMENT CO.—Union Co-operative Insurance Society Building, Sir Phirozshah Mehta Road, Bombay 1. Phone: 255333. Grams: "CON-QUIP."

DODGE & SEYMOUR (INDIA) PRIVATE LTD.—Krupanidhi, 2nd Floor, 9, Wittet Road, Ballard Estate, Bombay-1 BR. Phones: 263674 & 265479. Grams: "EXIMCO." Branches: Calcutta, New Delhi, Madras, Cochin, Bangalore, Secunderabad.

ELECTRIC CONSTRUCTION & EQUIPMENT CO., LTD.—Neelkanth, Opp. Marine Lines Station, 98, Marine Drive, Bombay-2. Phones: 293322 293431. Grams: "COCELL." Sole Agents in India for Schindler & Co., Ltd., CH-6030-Ebikon-Lucerne, Switzerland.

Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. **Gujarat Trading Syndicate.**—India House, Fort, Bombay 1.

HERCULES HOISTS LTD.—Manufacturers of "INDEF" Chain Pulley Blocks, Chain Electric Hoists, Ratchet Hoists & Travelling Trolleys. Shastri Marg, Bombay 78; Phone: 582311. Grams: "INDEF".

Tak Machinery Ltd.—Janmabhoomi Bhavan, Ghoga Street, Fort, Bombay 1.

TODI INDUSTRIES PRIVATE LIMITED.—(Engineering Division), Todi Estates, Lower Parel, Bombay 13; Phone: 371336; Grams: "OFFER"; Manufacturers of Overhead Hand Operated Cranes, Straight and Circular with or without Gantry Girders, Fabricated items & Steel Windows and Doors.

Voltas Ltd.—Strand House, Graham Road, Ballard Estate, Bombay 1.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Bombay 1.

HOMOEOPATHY

Roy & Co.—176, Princess Street, Bombay 2. Phone: 310504. Grams: "HOMOPATHS." The Leading House in Western India for genuine and reliable Homoeopathic and Biochemic medicines, globules, bottles, Corks and other Physician's requisites; Books—American, English and Indian Publications.

HOSES (RUBBER & CANVAS)

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: "ALERTDEAL."

AMIRUDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1. Phone: 257982, 258633. Grams: "PILOTACE."

AMRATLAL CHHAGANLAL & CO.—143, Nagdevi Street, Bombay 3. Phone: 326008. Grams: "EKADASHI." Dealing in Suction, Delivery & Fire Hoses, Surgical, Rubber & Plastic Tubings & Sheetings.

Calcutta Iron & Steel Co. Ltd.—68/D, Mohamedalli Road, Bombay 3.

Diamond Rubber Works Pvt. Ltd.—276, Nagdevi Street, Bombay-3.

EASTERN STORES & TRADING CO. PRIVATE LTD.

115, Nagdevi Street, Bombay-3.

Telephone: 322215 & 322216. Grams: "ENERGY".

"AIRSHIP" brand wire braded Hydraulic Hoses.

"NEO PRENE" Oil Suction & discharge Hoses.

"FLAX" fire fighting Hoses & fittings, Cotton & Rubber lined Hoses.

Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1.

Jivraj & Vrajlal.—122, Nagdevi Street, Bombay 3.

P. Ratilal & Co.—43, Dhanji Street, Bombay 3.

PREMIER RUBBER & CABLE INDUSTRIES.—Jamal Building, 211, Nagdevi Street, Bombay 3. Phone: 326551. Grams: "RUBBERGOODS." Manufacturers of quality rubber hose pipes (delivery and suction), Petrol and Oil resisting Hose pipes.

Richardson & Cruddas Ltd.—Byculla Iron Works, Bombay 8.

Royal Hardware Mart.—108, Nagdevi Street, Bombay 3.

Shalebhoj Tyebjee & Sons.—12, Bruce Street, Bombay 1.

Tahira Industries (India) Private Ltd.—19, Manohardas Street, Bombay 1.

VIKRAM & CO.—258, Nagdevi Street, P. O. Box No. 3266, Bombay 3-BR. Phone: 322981. Manufacturers' Representatives, All types of Hose Fittings; Authorised Distributors for "GOODYEAR," Transmission Beltings, Vee-Belts, Link Belts, Hoses, etc.

HOSIERY MANUFACTURERS AND DEALERS

Akbarally Ebrahimji Pharmacy & Department Store.—45, Veer Nariman Road, Bombay 1.

Borivili Hosiery Mills.—480, Kalbadevi Road, Bombay 2.

Cannapore Mills Depot.—Churchgate House, Nariman Road, Bombay 1.

Chhaganlal Vishram & Co.—107, S. Devji Street, Bombay 3.

Chunilal Mulchand & Co.—Waterloo Mansion, Museum, Bombay 1.

Harsharam & Co., K.—New Silk Bazar, Bombay 2.

Hukamchand Chanderbhan.—20, Swami Vivekananda Road, Bombay 50.

Mansukhlal Kantilal & Co.—Shamaldas Gandhi Marg, Bombay 2.

M. Daldas & Sons.—190, Shamaldas Gandhi Marg, Bombay 2.

MENORA HOSIERY WORKS PRIVATE LTD.—Manufacturers of Woollen, Nylon, Terylene and Orlon Knit Wears, 75, Nehru Road, Bombay 51; Phone: 57-1378-79.

Modern Hosiery Works.—Behind Century Mill, Globe Mill Lane, Bombay 15.

Pavri Sons & Co.—97, Bazar Gate Street, Fort, Bombay 1.

Trivedi, R., & Co.—28, Lalsingh Building, Lohar Chawl, Bombay 2.

Uttomal & Assudamal Co.—Bombay Mutual Annexe, Gunbow Street, Bombay 1.

Vashani Cloth Stores.—313, D. N. Road, Bombay 1.

Vasi Bros. & Co.—Topiwala Mansion, Mohamedally Road, Bombay 3.

Western Link Co.—Ajanta Apartments, Near Sassoon Dock, Bombay 5.

Yacob Ahmed Bros.—95A, Mahomedally Road, Bombay 3.

HOSPITAL EQUIPMENT & SUPPLIES

Bole Brothers.—49, Princess Street, Bombay 2.

BRIGHT BROTHERS PRIVATE LTD.—156-A, Tardeo Road, Bombay 34; Grams: "BRIBOS," Phone: 375342 (4 lines). Manufacturers of Polythene Buckets, Basins, Mugs and Carboys for Acids and Chemicals.

DIAMOND SURGICAL DRESSINGS WORKS, THE.—381, Arthur Road, Bombay 11. Phone: 374636; Manufacturers of Surgical Dressings & Sanitary Towels.

D. SHAH & CO.—24, Sardar Griha Bldg., Carnac Road, Bombay 2. Phone: 311054. Grams: "SCIENCAID." Hospital & Laboratory Furnishers. Distributors for Karl-Kaps, Wetzer Microscopes. Specialists in Bacteriological Laboratory Equipment.

Fairdeal Surgical Corporation.—Bank of Baroda Bldg., Palton Road, Bombay 1.

G. K. Kansara.—118, Kansara Chawl, Bombay 2.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

INDIAN OXYGEN LTD.—Ghatkopar (Lal Bahadur Shastri Marg), Bombay 27-AS; Phones: 582641 (7 lines), 582648, 582649 & 582782; Grams: "INDOXCO." Ghatkopar; Telex: 011-2391; Suppliers of Medical Apparatus for Anaesthesia, Analgesic & Oxygen Therapy and Medical Oxygen.

Jagkumar & Co.—317, D. N. Road, Bombay 1.

JANAK MANUFACTURING WORKS.—Antop Hill, Wadala, Bombay 31. Manufacturers of complete range of Hospital Steel Furniture which includes Ward Furniture, Operation Tables and Invalid Equipment. Phone: 440171. Grams: "JANAKBED" (MT). Showroom at Kastur Nivas, 26/E, French Road, Off Hughes Road, Chowpatty, Bombay 7. **Kanchanlal Maganlal & Co.**—Bode Chawl, Princess Street, P.B. No. 2029, Bombay 2.

NATIONAL STEEL EQUIPMENT CO.—8, Ka'rak Road, Wadala, Bombay 31. Phones: 441755, 442139, 442973. Grams: "BED-LOCKER", Wadala, Bombay. Manufacturers of Pressure and Non-Pressure Steam Sterilizers and Autoclaves, Pyrogen-free Water Still, Premature Baby Incubators and complete range of Industrial Heavy-Duty Catering (Kitchen) Equipment. Branches: Delhi—Calcutta—Madras.

PITAMBARDAS LALLUBHAI & CO.—86, Kansar Chawl, Kalbadevi Road, Bombay-2 (BR). Manufacturers of: "AGNIRAJ" Stoves, Lanterns, Aluminium, Brass, Copper & Stainless Steel Utensils. Hospital Ware, Equipments and Engn. Articles. Gram: "KATORIWALA". Phone: 334816 & 334408.

Raj-Der-Kar & Co.—Commissariat Building, Hornby Road, Fort. For Research and Industries.

Reliance Electric & Hardware Stores.—55, Krishna Bhuvan, Lohar Chawl, Bombay 2.

Salemahomed Padamsee & Co.—141, Devji Street, P.O. Box 3131, Bombay 3.

SHAH & CO., M.—Kanji Mansion, Sandhurst Road, Bombay 4. Phone: 351834.

Steelmade.—230, Dr. Annie Besant Road, Worli, Bombay 18.

Williams Jack & Co., Ltd.—Hamilton House, Bombay 1.

HOTELS AND RESTAURANTS

Airlines Hotel.—Churchgate Reclamation, Bombay 1.

AMBASSADOR HOTEL.—Churchgate Extension, Bombay-1. Phone: 291131 (10 lines). Grams: "EMBASSY". Most modern & up-to-date hotel in the East.

Aryanivas Hindu Lodging and Boarding House.—Dwarka Mansion, Prarthana Samaj, Bombay 4.

Astoria Hotel.—Churchgate Reclamation, Bombay 1.

Bentley's Hotel.—17, Oliver Road, Bombay 1.

Berry's Restaurant.—Nagin Mahal, Nariman Road, Bombay 1.

Bombay Lodge.—775, 15th Road, Bombay 52.

Bombelli's Swiss Confectionery.—63 Nariman Road, Bombay 1.

Brandon & Co., Ltd.—Elphinstone Bldg., Veer Nariman Road, Bombay 1.

Bristol Grill Private Ltd.—Laxmi Buildings, Sir Phirozshah Mehta Road, Bombay 1.
 Ch tana Ltd.—34, Rampart Row, Bombay 1.
 Elphinstone Hotel.—Mehra Bldg., 2nd Corner of D. N. Road and Gunbow Street, Bombay 1.
 Empire Hindu Hotel.—D. N. Road, Bombay 1.
 Eros Theatre & Restaurant Private Ltd.—82, Karve Road, Bombay 1.
 Faletti's Italian Cafe and Restaurant.—Cusrow Baug, Colaba, Bombay 1.
 Frederick's Chinese Restaurant.—Lansdowne Road, Apollo Bunder, Bombay 1.
 Gayland Hotel.—Juhu Beach, Bombay 54.
 Gaylords Restaurant.—Mayfair Bldg., Churchgate, Bombay 1.
 George Restaurant and Stores.—20, Apollo Street, Bombay 1.
 Girgaum Lodge.—47F, Khotachi Wadi, Bombay 4.
 Gourdon & Co.—Churchgate Reclamation, Bombay 1.
 Grand Hotel Ltd.—Ballard Estate, Fort.

HOTEL BOMBAY INTERNATIONAL.—29, Marine Drive, Bombay-20. Tel.: 299260 (4 lines).

Hotel Delamar.—Sunder Mahal, Subhas Road, Bombay 1.
 Hotel Elphinstone.—Mehra Bldg., 2, Corner of D. N. Road, & Gunbow Street, Bombay 1.
 Hotel Evergreen.—Evergreen Bldg., Third Road, Bombay 52.
 Hotel Metropole.—16, Palton Road, Bombay 1.
 Hotel Minerva.—Navyug Nivas, Bhad Kamdar Road, Bombay 7.
 Hotel Miramar.—Opp. Colaba P. O., Bombay 5.
 Hotel Natraj.—135, Subhas Road, Bombay 1.
 Hotel Palace Ajanta.—8, Juhutara Road, Bombay 54.
 Hotel Parklane.—95, D. Phalka Road, Bombay 14.
 Hotel Prabhat.—Rusi Bldg., Gell Street, Bombay 11.

Hotel Waldorf.—Arthur Bunder Road, Colaba, Bombay.
 Ideal Restaurant.—Alice Building, D. N. Road, Bombay 1.
 Juhu Country Hotel.—Juhu, Bombay 54.
 Juhu Hotel Private Ltd.—Juhu Beach, Bombay 54.
 Kamling Chinese Restaurant.—B. Desai Road, Bombay 26.
 Kashmir Hotel.—Dhun Mahal, Dhobi Talao, Bombay 2.
 Khyber Restaurant.—145, Mahatma Gandhi Road, Opp. Kala Ghoda, Bombay 1.
 Kwality Restaurant & Ice Cream Company.—India House, Kempa Corner, Bombay 26.
 Lawrence Hotel.—Ashokkumar House, Rampart Row, Bombay 1.
 Lentin Court Hotel.—Ramchandani Marg, Bombay 1.
 Leopold Cafe & Stores.—No. 6, Colaba Causeway, Bombay 1.
 Lessers Boarding House.—Soona Mahal, Subhas Road, Bombay 1.
 London Hotel.—Grant Road, Bombay 4.
 Majestic Hotel.—Nariman Road, Bombay 1.

METROPOLE HOTEL.—Palton Road, Opp. Crawford Market, Bombay 1. Approved by the Bombay Municipal Corporation as 1st Grade Hotel, Air-conditioned rooms also available. Telephone in each room. Phones: 266330 and 266338-9. Grams: "MYHOTEL."

Modern Hindu Hotel.—12, Wallace Street, Bombay 1.
 National Hindu Hotel.—Frere Road, opp. Tram Junction, Bombay-1.
 New Coronation Durbar Hotel.—Grant Road, Bombay 7.
 New Empire Restaurant, Stores & Bakery.—134, D. N. Road, Bombay 1.
 New Empire Stores & Restaurant.—Rustom Mahal, Tram Terminus, Dadar, Bombay 14.
 New Welcome Hindu Restaurant.—Meadows House, Tamarind Lane, Fort, Bombay 1.
 Nrisinha Hindu Lodge.—177, D. N. Road, Bombay 1.
 Orient Hotel.—Crawford Market, Bombay 3.
 Picnic Cottages Restaurant.—Versova, Bombay 58.
 Purohit Hotel.—Parekh Mahal, Nariman Road, Bombay 1.
 Pyrke's Apollo Hotel.—Lansdowne Road, Bombay 1.
 Railway Hotel.—R. M. Roy Marg, Bombay 4.
 Regent Hotel.—Ballard Estate, Bombay 1.
 Ritiz Hotel & Restaurant.—Churchgate Reclamation, Bombay 1.
 Royal Guest House (Lodging & Boarding).—Lady Hardinge Road, opp. Rivoli Cinema, Bombay 16.
 Royal Hotel.—Hassam Chambers, S. A. Brelvi Street, Bombay 1.
 Santacruz Airport Restaurant.—Santacruz, Bombay 29.
 Sardar Griha (Private) Ltd.—Carnac Road, Bombay 2.
 Savoy Hotel & Restaurant.—Bombay Central, Bombay 8.
 Sea Green Hotel.—Sea Green Building, Subhas Road, Bombay 1.
 Sea Green South (Hotel).—Sea Green Building, Subhas Road, Bombay 1.
 Sea View Hotel.—221, Frere Road, opp. G.P.O., Bombay 1.
 Sea View Hotel.—Juhu, Bombay 54.
 Sher-E-Punjab Restaurant.—264, Frere Road, Bombay 1.
 Ship Hotel.—219, Frere Road, Bombay 1.
 Shree Krishna Boarding House.—Bhatwadekar Building, Girgaum, Bombay 4.
 Simla and Calcutta Hotel.—Mangalore Street, Bombay 1.
 Shalimar Hotel Pvt. Ltd.—Cumballa Hill, Bombay 26.
 8.rand Hotel.—Apollo Bunder, Bombay 1.
 Sun-N-Sand Hotel.—Juhu, Bombay 54.

TAJ MAHAL HOTEL.—Apollo Bunder. Grams: "PALACE". Phones: 297755 (40 lines). TELEX: 2442.

WEST END HOTEL.—Tastefully Decorated Rooms, Air-Conditioned Banquet and Conference Facilities and Spacious Roof Garden for Receptions. 45, Marine Lines, Bombay 1. Phone: 299121 (9 lines). Grams: "BESTHOTEL".

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GIRD & GORD P. LTD.—11, Rock House, Worli, Bombay-18
 WB. NEC Oil Hydraulic Rams, Pumps, Valves, Power Packs, etc. Air Cylinders, Filters, Regulators, Lubricators, Hydraulic Presses, Floor Cranes, Lifting Tables, Stackers etc
 Phones: 372965, 375340.

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CRESCENT TRADING CO.—48-50, Bhajipala Street, Bombay 3. Phones: 325140 & 328944; Grams: "WATERMETER."
 Manufacturers & Dealers: 'Hydrump' Hydraulic Test Pump to test Pipes, Drums, Boiler Valves or anything on earth which needs such test. Pipes, Fittings, Valves, Cocks, Gauges, etc., etc.

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AMBICO ICE WORKS, COLD STORAGE & REFRIGERATION.
 —H.O.: 35-C, Jeirajbhoy Street, Bombay 8. Phone: 371692.
 Factory: 10-12, Cochin Street, Ballard Estate, Bombay 1. Phone: 263308.

Bakhtawar Ice Factory.—Kumbharwada, Bombay 28.
 Bombay Crystal Ice Works.—179, Love Lane, Bombay 27.

BOMBAY COLD STORAGE.—Manufacturers and Bulk Suppliers of Ice. Cold Storage space also available. Factory: 36 B, Wagle Industrial Estate, Thana. Office: Nilam Mansion, Lamington Road, Bombay-4. Office: 353489. Factory: 592409.

Central Ice & Cold Storage Co.—Saboo Siddick Road, Bombay 1.
 City Ice Supply & Cold Storage.—P. Nariman Street, Bombay 1.
 Dhunjibhoy's Ice Factory.—Dr. Mascarenhas Road, Bombay 10.

HOMILA ICE WORKS, COLD STORAGE AND REFRIGERATION.—Manufacturers of Pure and Colourless Ice. 33-C, Jeirajbhoy Street, Near Municipal Workshop, Foras Road, Bombay 8 (India). Phone Nos. 71692 & 71314.

Siddiley Ice Factory.—505A, Arthur Road, Bombay 11.
 Sitaram Industries.—Byculla Bridge, Bombay 27.

SUNAWALA ICE FACTORY & COLD STORAGE (Estd. 1918).—Jeirajbhoy Street, Next to Municipal Workshop, Byculla, Bombay 8. Phone: 371692. Factory: 188, Lamington Road, Bombay 7.

IMPORT AND EXPORT FIRMS (GENERAL)

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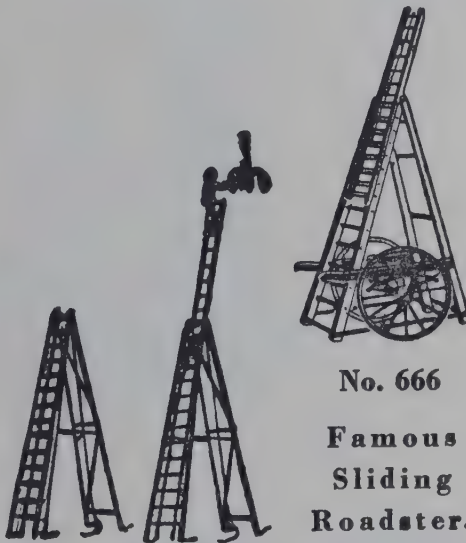
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Kirtilal & Co.—31, Bibijan Street, Bombay 3.

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Shah Engineering Stores Corporation.—51, Nagdevi Cross Lane, Bombay 3.

Shah Trading Corporation.—Oomrigar Building, Crawford Market, Bombay 3.

Vishwa Bharati Trading Co.—45, Bhagat Singh Road, Bombay 1.

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Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay 1.

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Devidayal Metal Industries.—157, Kika Street, Bombay 4.

Dineshchandra Keshavlal & Co.—209, Kika Street, Bombay 2.

Frances Klein & Co. (Bombay), Pvt. Ltd.—Shale Building, Bank Street, Fort, Post Box No. 777, Bombay 1.

Hind Hardware Stores.—Pirbhoy Building No. 1, Lohar Chawl, Bombay 2.

Hindustan Metal Manufacturing Co.—Lal Chimney Compound, A. Nair Road (North), Bombay 11.

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Khandelwal Mining Corporation.—6, Itola Street, Opp. Argyle Road, Carnac Bunder, Bombay 9.

Khemka (Agencies) Private Ltd.—Vulcan Insurance Building, 202-A, Veer Nariman Road, Churchgate Reclamation, Bombay 1.

Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone: 20583. Grams: "LALITKIRTI."

Mehta Mineral Corporation.—196, Gujarat Society, Bombay 22. DD.

Merchantile Trading Co.—Gulzare Kasim, Belvedere Hill Road, Bombay 10.

Mineral Mining Co., Private Ltd., The.—111, Industrial Area, Sion, Bombay 22DD.

Nagri Mining Co. Private Ltd.—Sambava Chambers, Sir P. M. Road, Fort, Bombay.

National Industries of India.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.

Natwarial Shamaldas & Co.—94, N. Master Road, Fort, Bombay 1.

New Bharat Grinding Mills.—Near Animal Hospital, Govt. Gate Road, Parel, Bombay 12.

Newkem Products Corporation.—Harganga Mahal, Dadar T. T., Bombay 14.

Overseas Trade & Agencies (India).—Beaumont Chambers, Meadows Street, Fort, Bombay.

Pravin Brothers & Co.—140, N. Master Road, Bombay 1.

Ram Bahadur Thakur & Co.—11-B, Noble Chambers, Ghoga Street, Bombay.

RAJ CORPORATION.—207, Samuel Street, Bombay-3. Mine Owners and Suppliers of Bentonite and other minerals to Industrial Concerns and Retail and Wholesale Dealers. Phone: 327664.

S. Ratilal & Co.—285, D'Mello Road, Bombay 1.

Sepulchre Brothers (India) Ltd.—Taj Building, D. Naoroji Road, Bombay.

Sharma & Sharma.—Oriental Bank Building, 65, Mahatma Gandhi Road, Bombay.

3 standard Pulverising Co.—Atlas Mill Compound, Reay Road, Bombay 10.

Tavaria Bros.—Dhan-Nur, Sir Phirozshah Mehta Road, Fort, Techno-Industrial Syndicate.—Noble Chambers, S. A. Brelvi Road, Fort, Bombay 1.

Universal Minerals & Chemical Co.—Botawalla Bldg., Horniman Circle, Fort, Bombay 1.

Vaswani (India) Private Ltd.—496, Kalbadevi Road, Post Box No. 2009, Bombay 2.

Vora Trading Co.—Vakil Bldg., Vadgadi, Bombay 3.

Wallem & Co.—India House. Opp. G.P.O., Bombay.

Western India Trading Co.—Hague Bldg., Spratt Road, Bombay 1.

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Allibhai Premji Tyrewalla.—205, Lamington Road, Bombay 7.

Asian Motor Car Co.—Ramchandra Mansion, Sandhurst Road.

Bombay Garage Ltd.—Meher Building, Chowpatty, Bombay 7.

Bombay Motors & Radios Ltd.—33, New Queen's Road.

Bombay Scooter & Motor Agency.—43, Karve Road, Bombay 2.

Car Mart Ltd.—Kap or Mansions, Hughes Road, Bombay 7.

Continental Auto Stores.—Tram Terminus, Opera House.

Dadajee Dhackjee & Co. Private Ltd.—Sandhurst Bridge, Bombay 7.

Eastern Motor Corporation.—Indira Nivas, Bhatwadi, Girgaum.

Empire Automobiles.—Junction of New Queen's Road and Lamington Road.

Foreign Products Distributing Co.—491, S.V.P. Road, Bombay 4.

French Motor Car Co., Ltd.—Nyayamurti S. Patkar Road, Bombay 26.

Garware Motors Engineering Private Limited.—Chowpatty Chambers, Sandhurst Bridge, Bombay 7.

Harvan Motor House.—"Kapal Nivas", Sandhurst Road.

IDEAL MOTORS SERVICE DEPT.—Bombay Mutual Annexe, Cawasji Patel Street, Fort. Phone: 262660 and Head Office: Sitaram Bldg., Dr. Dadabhoy Naoroji Road, Bombay 1. Phone: 263485. Distributors of Jawa Motor Cycles, Cycles & Spare Parts. Grams: "IDEALMOTOR."

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Indian Automobile Co., Ltd.—2-4, Apollo Street, Fort.

Lucas Indian Service Ltd.—15, New Queen's Road.

Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder, Bombay 1.

Metro Motors, The.—Motor House, Hughes Road, Bombay 7.

Nizel Motors.—7-A, Princess Avenue, Bandra, Bombay 50.

Noble Cycle & Motor Co.—Ramchandra Mansion, Sandhurst Road, Bombay 4.

Patel, F. M., & Co.—Ramchandra Mansion, Sandhurst Road, Bombay 4.

Patel, N. D., & Co.—180-82, Princess Street.

Premier Automobiles Ltd.—Agra Road, Bombay 70.

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Shetty Automobiles.—Opera House Tram Terminus.

Tata Locomotive & Engineering Co. Ltd.—148, Mahatma Gandhi Road, Bombay 1.

United Motors (India), Ltd.—Hughes Road.

United Overseas Service.—16, New Queen's Road, Bombay 4.

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2) Naroda West, Ahmedabad.

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Ruby Coach Builders Private Ltd.—86, M. Vasanji Road, Bombay 59.
Sam Ruston & Co.—81/83, Mangalore Street, Ballard Estate.
Sewri Engineering Works.—234, Sewri Road, Bombay 15.

MOTOR (BUS & COACH) BODY BUILDING MATERIALS

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JAFFERBHAI & CO.—106-108, Bhendi Bazar, P.O. Box 3055 Bombay 3. Phone : 333324 Grams : "NECESSITY." Dealers in P.V.C. leather Cloth, Canvas, Motor accessories, Felt, Celluloid, Aluminium Sections, Rubber Sections, Sponge & Foam Cushions etc.

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Mckenzie Ltd.—Sewri, Bombay 15.

Metal Craft Industries.—Parekh Nagar, S. V. Road, Kandivli, Bombay 67.

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Mehta, J. V., & Co.—Opera House Tram Terminus, Bombay 4.
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Masrani Estate, Old Kurla, Bombay 70.

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Batliboi & Sons.—Standard Vacuum Service Station, Hughes Road, Bombay Tyre Service.—28, Ibrahim Rahimtoola Road, Near J. J. Hospital, Bombay 3.

Dunlop Rubber Co. (India), Ltd.—"Dunlop House," Hughes Road.
Empire Automobiles.—Junction of New Queen's Road & Lamington Road.

Firestone Tyre & Rubber Co. of India, Ltd.—Hay Bunder Road, Sewree.

Greaves Cotton & Co., Ltd.—1, Forbes Street.

Harvan Motor House.—Kapole Nivas, Sandhurst Road.

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Modern Auto Stores.—Vallabh Terrace, Sandhurst Road.

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Batliboi & Co. Private Limited.—Regd. Office : Forbes Street, P. Box 190A, Fort, Bombay-1 (BR.). Phones : 259611 (6 lines). Grams : "BATLIBOICO." Telex : 011-2284. City Branch : "BATLIBOI HOUSE," 59/61, Nagdevi Cross Lane, Bombay-3 (BR.). Branches : Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, Indore, Jaipur, Kanpur, Ludhiana, Madras, New Delhi, Patna, Secunderabad, Vijayawada. Associate : Bangalore 2. Resident Representatives : Bhopal, Bhubaneswar, Raipur, Rajkot.

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HIRO MUSIC HOUSE.—23/C, Sir Phirozshah Mehta Road, Bombay 1. Phones : 257352 & 257062. Dealers in Records & Radios.

James & Co.—Navsari Building, Hornby Road, Fort.

Ruby Record Company.—8, Tamarind Street, Bombay 1.

NEON LIGHTINGS

Brilliant Neon Signs Co.—Readymoney Mansion, 43, Vir Nariman Road, Bombay 1.

"**CHANDRAKIRAN**".—Neon Signs Manufacturers, Electrical Dealers & Engineers & Government Electrical Contractors. Dhan-Nur, 4th Floor, Sir Phirozshah Mehta Road, Bombay 1. Phones : 263660 & 266428. Grams : "LITELORDS". Showroom : 88, Sion Circle, Bombay 22. Phones : 471606, 476588, 476923. Factory : 53, Ideal Industrial Estate, Mathurdas Mill Compound, Lower Parel, Bombay-13. Phone : 374042.

NEWSPAPERS AND PERIODICALS**ENGLISH****DAILY**

"**ECONOMIC TIMES.**"—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

"**EVENING NEWS OF INDIA.**"—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

"Financial Express."—Newspaper House, Sassoon Dock, Colaba.

"Free Press Bulletin."—21, Dalal Street, Fort, Bombay 1.

"Hindustan Standard" (English Daily from Calcutta).—Bombay Office : United Bank of India Bldg., Sir Phirozshah Mehta Road, Bombay 1.

"Indian Express."—Standard Press, Colaba.

"**TIMES OF INDIA.**"—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

WEEKLY

- "Bharat Jyoti."—21, Dalal Street, Fort, Bombay 1.
 "Blitz."—Blitz Publications Private Ltd., 17, Cowasji Patel Street, Bombay 1.
 "Commerce."—Brady House, Veer Nariman Road, Bombay 1.
 "Current."—Meher House, Cawasji Patel Street, Bombay 1.
 "Economic Weekly."—The Loop Insurance Bldg., P. M. Road, Bombay 1.

EVE'S WEEKLY (India's Premier Women's Magazine).—Sanj Vartaman Press, Apollo Street, Fort, Bombay. Price: 50 P. per copy (pp. 48). Annual Subscription Rs. 26 (Inland), Rs. 42 (Foreign). Editor: Gulshan Ewing. Advt. Manager: B. R. Chopra. Advertisement Rates: Casual—Full Page Rs. 1,000, Half Page Rs. 500, Quarter Page Rs. 250. Contract: Full Page Rs. 900, Half Page Rs. 450, Quarter Page Rs. 225. Colour Page Rs. 1,500. Phones: 258004-5-6 & 258009-10. Grams: "EVES-WEEKLY."

- "Examiner"—35, Dalal Street, Bombay 1.
 "Film Politics."—208, Vincent Road, Dadar, Bombay 14.

"ILLUSTRATED WEEKLY OF INDIA."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

- "Janata."—National House, 6, Tullock Road, Apollo Bunder, Bombay 1.

"Journal of The Film Industry."—Sandhurst Building, Sardar Vallabhbhai Patel Road, Bombay 4.

- "Racing Times."—A/31, Anand Nagar, Forjett Street, Cumballa Hill, Bombay 26.

- "Screen."—Newspaper House, Sassoon Dock, Bombay 5.
 "Sunday Standard."—Newspaper House, Sassoon Dock, Bombay 5.
 "Tide."—143, Mahatma Gandhi Road, Bombay 1.

"TIMES OF INDIA" (Sunday Edition).—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

FORTNIGHTLY

- "Bhavan's Journal."—Bharatiya Vidya Bhavan, Chowpatty, Bombay 7.

"FEMINA."—Times Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

"FILMFARE."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

"Goan Tribune."—Kamani Chambers, Nicol Road, Ballard Estate.

"INDRAJAL COMICS."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

- "Industrial Times."—Sanj Vartaman Press, Apollo Street, Fort.
 "Onlooker."—Seervai Building, 20-G, Sleater Road, Bombay 7.

MONTHLY

"Imprint."—F. & S. Distributors (P) Ltd., C/o Little & Co., Central Bank Building, Bombay 1.

"India's Stamp Journal."—Standard Building, Dr. Dadabhoy Naoroji Road, Fort.

"Indian Journal of Medicine Sciences."—Khetwadi Main Road, Bombay 4.

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 "Mirror."—Eve's Weekly (P) Ltd., Sanj Vartaman Press, Apollo Street, Fort, Bombay 1.
 "Mother India."—Dhan Nur, Sir Phirozeshah Mehta Road, Fort, Bombay 1.
 "Radio Times of India."—29, M. Parmanand Marg, Bombay 4.
 "Readers Digest."—5, Lotus Court, Jamshedji Tata Road, Bombay 1.

- "SCIENCE TO-DAY."—Times Bldg., Dr. D. N. Road, Fort.
 "Students Digest."—22, Apollo Street, Bombay 1.
 "Trend."—Sanj Vartaman Press, Apollo Street, Fort, Bombay 1.

QUARTERLY & HALF-YEARLY

- "Bombay Hospital Journal."—Bombay Hospital, 19, Marine Lines, Bombay 1.
 "Links."—(Bi-Monthly), The State People Press, Ghogha Street, Bombay 1.
 "OCEANITE."—The Maritime Magazine of India, 204, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Phone No. 26-3052.
 "Probe."—(Bi-Monthly) The Himalaya Drug Co., 251, Dr. D. N. Road, Bombay 1.
 "Quest."—(Quarterly) Army & Navy Building, 148, Mahatma Gandhi Road, Bombay 1.

ANNUAL

- "Industrial India Annual."—United India Building, Sir Phirozeshah Mehta Road, Fort, Bombay.
 "Onlooker Annual."—Onlooker Publications Private Ltd., 20-G, Sleater Road, Bombay 7.
"TIMES OF INDIA DIRECTORY AND YEARBOOK."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.
"THE TIMES OF INDIA ANNUAL."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.
 "Textile Age Annual."—56/57, Lakshmi Building, Sir Phirozeshah Mehta Road, Fort, Bombay 1.

ANGLO-GUJARATI

WEEKLY

- "Parsi Avaj."—R. F. Joshi P. Press, Mangalore Street, Fort.

ANGLO-MARATHI

WEEKLY

- "Subodh Patrika."—Prarthana Samaj, Charni Road, Girgaum.

ANGLO-PORTUGUESE & KONKANI

WEEKLY

- "Ave Maria."—New Sonapur Street.
 "Goa Mail."—322, Girgaum Road, Thakurdwar.
 "Goa Times."—84-86, 1st Marine Lines, Dhobi Talao.
 "Udentichem Neketr" (Konkani).—Examiner Press, Meadows Street, Fort.

BENGALI

FORTNIGHTLY

- "INDRAJAL COMICS."**—Times Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

MARATHI

DAILY

- "Loksatta."—Newspaper House, Sassoon Dock, Colaba Bombay 5.
 "Lucky Star."—Bombay Printing Press, 5th Cross Lane, Falkland Road, Bombay 4.
"MAHARASHTRA TIMES."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.
 "Maratha."—Maharashtra Papers (P) Ltd., Love Grove Road, Worli.
 "Navakal."—18, Shenviwadi, Kandewadi, Girgaum.
 "Navshakti."—Navshakti Printing Press, 21, Dalal Street, Fort.
 "Praja Mitra."—211-219, Frere Road, Bombay 1.
 "Sampatti."—New Amar Printery, 262, Madhavji Bhuwan, 3rd Khetwadi, Bombay 4.
 "Sandhyakal."—13, Shenviewadi, Khadilkar Road, Bombay 1.
 "Sanj Maratha."—Maharashtra Papers (P) Ltd., Love Grove Road, Worli, Bombay 18.
 "Zunjar."—31, Tribhuwan Road, Bombay 4.

WEEKLY

- "Alamgeer."—11, Tribhuwan Road, Bombay 4.
 "Film Kesri."—Altas Printing Press, Fancy Market, Wylie Street, Bombay 11.
 "Janawani."—Servants of India Society's House, Sardar Vallabhbhai Patel Road, Girgaum.
 "Marmik."—77/A, Ranade Road, Shivaji Park, Bombay 28.
 "Raviwaracha Nawakal."—13, Shenviewadi, Khadilkar Road, Bombay 4.
 "Sahitya Swapna."—Nitin Mansions, Khetwadi 7th Lane, Bombay 4.
 "Vivek."—310, Cadell Road, Prabha Devi, Bombay 29.

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- "INDRAJAL COMICS"**—Times Building, Dr. Dadabhoy Naoroji Road, Fort.
 "Konkan Valbhav."—2/4, Topiwala Lane, Lamington Road, Bombay 7.

MONTHLY

- "Anuradha."—525, Tulsi Pipe Road, Dadar, Bombay 28.
 "Daryawardi."—2/4, Dharmshala Road, Bombay 9.
 "Dipavali."—40-42, Kennedy Bridge, Bombay 4.
 "Gammatt-Jammatt."—37, Western India House, Sir Phirozshah Mehta Road, Fort, Bombay 1.
 "Kalyan Yatra."—Old Custom House, 2nd Floor, Fort, Bombay 1.
 "Kathasagar."—14, Tribhuvan Road, Bombay 4.
 "Lalana."—Rukmini Niwas, Maurbag Road, Dadar, Bombay 14.
 "Nava Neet (Marathi Digest)."—341, Tardeo, Bombay 7.
 "Parchure."—Parchure Prasad, Block No. 5, 144, Shivaji Park, Road No. 2, Bombay 28.
 "Phool-Baag."—A/1, Bhaveshwar Manslon, Shivaji Park, Cross Road No. 3, Mahim, Bombay 16.
 "Prafulla Mala."—E/Block, Himraj Wadi, Thakurdwar, Bombay 2.
 "Rahasyamala."—E/Block, Hemraj Wadi, Thakurdwar, Bombay 2.
 "Ramdba."—Om Printing Press, Rangwala Market, Wylee Street, Agripada, Bombay 11.
 "Sahitya Asha."—Shah Bldg. No. 3, Lady Hardinge Road, Mahim.
 "Samaj Seva."—C.K.P. Dnyatigriha, Ram Maruti Road, Dadar, Bombay 28.
 "Sanjaya."—525, Tulsi Pipe Road, Dadar, Bombay 28.
 "Satya Katha."—Khatar Wadi, Bombay 4.
 "Shree Deeplaxmi."—9/10-B, Zaoba Wadi, Thakurdwar, Bombay 2.
 "Suwarta."—Examiner Press, 35, Dalal Street, Fort.
 "Vasant."—87, Charni Road, Bombay 4.

ANNUAL

- "Avaz."—Modi Chambers, French Bridge, Bombay 4.
 "Manoranjan."—Abhyankar Building, Sleater Road, Grant Road, Bombay 7.
 "Prabha."—22/B, Nirmala Nivas, Merwanji Street, Parel, Bombay 12.
 "Ratnadeep."—461/A, Rama Niwas, Opp. King's Circle Garden, Matunga.
 "Sugandha."—292, V. P. Patel Road, Bombay 4.

GUJARATI

DAILY

- "Bombay Samachar."—Red House, Parsi Bazar Street.
 "Jam-e-Jamshed."—Ballard House, Mangalore Street, Fort.
 "Janmabhumi."—Janmabhoomi Bhavan, Ghoga Street, Fort, Bombay.
 "Kutchbhumi."—Keshav Bhuvan, 1st Parsiwada, V. P. Road, Bombay 4.
 "Loktantra."—31, Tribhuvan Road, Bombay 4.
 "Praja-Tantra" (Gujarati Evening Daily).—Kalam Kutir, 211/19, Frere Road, Fort, Bombay.

WEEKLY

- "Begum."—2/A, Naaz Building, Lamington Road, Bombay 4.
 "Chitralekha."—Star Printery, 62, Karwar Street, Off Mint Road, Bombay 4.
 "Janmabhumi Pravasi."—Janmabhoomi Bhawan, Ghoga Street, Fort, Bombay 1.
 "Paras."—Atlas Press, Rangwala Market, Wylie Street, Agripada, Bombay 11.
 "Sukani."—Gul-Bahar, Barrack Road, Bombay 1.
 "Vatan."—2/A, Naaz Building, Lamington Road, Bombay 4.

FORTNIGHTLY

- "INDRAJAL COMICS"—Times Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

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- "Beej."—The Star Printery, 62, Karwar Street, Bombay 4.
 "Chetan."—23/A, Zaoba Wadi, Thakurdwar, Bombay 2.
 "Chhupi Police."—Tinwala Building, Tribhuvan Road, Bombay 4.
 "Dwij Jivan."—Sharaf Mansion, 32, Princess Street, Bombay 2.
 "Gayatri Vignan."—206, Jawahar Nagar, Goregaon (West), Bombay 62.
 "Gujarati Hindu Stree Mandal Patrika."—123, Vithalbhai Patel Road, Bombay 4.
 "Gunjam."—Commerce House, Meadows Street, Fort, Bombay 1.
 "Gup Sup."—Ballard House, Mangalore Street, Fort.
 "Jee."—The Star Printery, 62, Karwar Street, Bombay 1.
 "Jeewan Madhuri."—Gulbahar, Barrack Road, Bombay 1.
 "Kismet."—397-B, Sir Mangaldas Wadi, Naaz Compound, Lamington Road.
 "Kutch Vikas."—547, B. DeLisle Road, Laxmi Bhuvan, Bombay 11.
 "Mahendi."—Kismet Printery, Naaz Cinema Compound, Lamington Road.
 "Mukti Samachar."—Salvation Army, Morland Road, Byculla, Bombay 8.
 "Navaneet (Gujarati Digest)."—341, Tardeo, Bombay 34.
 "Ramakdum."—211-19, Kalam Kutir, Frere Road, Fort.
 "Samarpan."—Bharatiya Vidya Bhavan, Chowpatty, Bombay 7.
 "Savita."—Premier Printery, 73, Tulsibaug-Tabela, Tardeo Road, Bombay 34.
 "Varsha."—37, Abdul Rehman Street, Bombay 3.

ANNUAL

- "Bombay Samachar Dipotsavi Ank."—Red Building, Parsi Bazar Street, Bombay 1.

HINDI

DAILY

- "NAVBHARAT TIMES."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.
 "Vishwamitra."—Noble Chambers, Parsi Bazar Street, Fort.

WEEKLY

- "Blitz Hindi Edition."—Blitz Publications Private Ltd., 17/17-H, Cawasji Patel Street, Fort, Bombay 1.
 "Cinevani."—5-F, Naaz Cinema Building, Bombay 4.
 "DHARMAYUG"—Times Building, Dr. Dadabhoy Naoroji Road, Fort.
 "Urvashi."—Manek Chambers, Lamington Road, Bombay 4.
 "Vikrant."—Shukla Printers, Dr. Deshmukh Lane, Vithalbhai Patel Road, Bombay 4.

FORTNIGHTLY

- "INDRAJAL COMICS."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.
 "MADHURI"—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

MONTHLY

- "Bharati."—Bharatiya Vidya Bhavan, Chowpatty, Bombay 7.
 "Chitrawali."—BK. 17/2, Mulund Colony, Bombay 82.
 "Gajara."—47, Laxmi Insurance Building, Sir Phirozshah Mehta Road, Fort.
 "Navaneet (Hindi Digest)."—341, Tardeo, Bombay 7.
 "PARAG."—Times Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.
 "SARIKA."—Times Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

ANNUAL

- "Dipavali Annual."—40/42, Kennedy Bridge, Near Opera House, Bombay 4.
 "Ratnadeep."—461/A, Ram Niwas, Opp. King's Circle Gardens, Matunga.

URDU

DAILY

- "Aaj."—242, Ripon Road, Bombay 8.
 "Ajmal."—Princess Building, Ebrahim Rahimtullah Road, Bombay 3.
 "Hindustani."—259, Ripon Road, Bombay 8.
 "Inquilab."—Inquilab Press, 6/10, Tamkar Street, Bombay 8.
 "Khilafat."—Khilafat House, Love Lane, Bombay 27.
 "Qyadat."—107, Jail Road (North), Bombay 9.
 "Shaam."—Inquilab Press, 6/10, Tamkar Street, Bombay 8.
 "Urdu Times."—Guzarea Building, 243, Moulana Azad Road, Bombay 8.

WEEKLY

- "Kahkasen."—6/10, Temkar Street, Bombay 2.
 "Nai Roshni."—Hindusthan Press, 32, Sukhlaji Street, Bombay.
 "Salasil."—259, Ripon Road, Bombay 8.

MONTHLY

- "Akkas."—21, Ali Umer Street, Bombay 3.
 "Film Line."—H/No. 471, Ghodbunder Road, Khar, Bombay 52.
 "Film Sansar."—11, Motishah Jain Trust Building, Love Lane, Bombay 27.
 "Shakila."—36, Imamwada Road, Bombay 9.

SINDHI

DAILY

- "Hindustan."—23, Hamam Street, Fort.

WEEKLY

- "Bharat Jiwan."—163, Dongri Street, Bombay 9.
 "Hindvasi."—23, Hamam Street, Fort, Bombay 1.
 "Jagriti."—546, Bazar Road, Bandra, Bombay 50.

TAMIL

FORTNIGHTLY

- "INDRAJAL COMICS"—Times Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

MONTHLY

- "Kahani."—Chandan Printing Press, Hanali Tank Road, Bombay 28.
 "Raj Filmstan."—163, Dongri Street, Bombay 9.
 "Shanti."—Flat No. 11, Plot No. 424, 14th Road, Bandra, Bombay 50.

PUNJABI DAILY

"Ranjit."—40, Goa Street, Fort.

WEEKLY

"Punjabi Samachar."—14/D, Allana Compound, Agripada, Bombay 11.

"Ranjit."—40, Goa Street, Fort.

KONKANI WEEKLY

"Ave Maria."—303, Ground Floor, New Sonapur Street, Bombay 2.

"Goan Express."—63, Portuguese Church Street, Dadar, Bombay 28.

"Goa Times."—84/86, First Marine Street, Bombay 2.

"Poinnari."—209, Frere Road, Bombay 1.

NON-ALCOHOLIC PERFUMERY COMPOUNDS

S. H. KELKAR & CO., PRIVATE LTD. (Estd. 1928).—36, Mangaldas Road, Bombay-2. Phone: 319130. Grams: "SACHEWORKS," Dadar, Bombay. Manufacturers of Essential oils, Aromatic Chemicals and "COBRA" Brand Perfumes. Also Pharmaceutical Products.

NON-FERROUS DIE CASTING

GENCO INDUSTRIES PRIVATE LTD.—Die Making & Non-Ferrous Die-Casting for Automobile & Motor Cycle parts, Electrical Components, Builders, Furniture, Plumbing, Textile and Railway Hardware. Regd. Office: 68A, Ali Chambers, Tamarind Lane, Bombay-1. Phone: 256896. Grams: "WIECOL." Works: A-52, A-53, Government Industrial Estate, Wagle Wadi, Agra Road, Thana, Bombay. Phone: 591733.

NON-FERROUS METALS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay 1.

Bombay Company Ltd.—9, Wallace Street, Bombay 1.

BRALCO METAL INDUSTRIES PRIVATE LIMITED.—Successors to Devidayal Metal Industries. Regd. Office: Gupta Mills Estate, Reay Road, Darukhana, Bombay-10. Phone: 378561 (3 Lines). Grams: "GINGER". Telex: 2684. Manufacturers of Aluminium, Copper and Brass Sheets, Sheathings, Strips, Circles, etc.

C. Amichand & Co.—46 A, Abdul Rehman Street, Bombay 3.

Choonilal Mohanlal & Co.—Shop No. 54, Kika Street (Gulawadi), Bombay 4.

Dineshchandra Keshavlal & Co.—209, Kika Street, Bombay 2.

Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

Guest, Keen Williams, Ltd.—Sprott Road, Ballard Estate, Bombay 1.

Hindustan Metal Manufacturing Co.—Lal Chianney Compound, Near Nair Hospital, Lamington Road (North), Bombay 11.

India Metal Agencies.—"India House", Opp. G.P.O., Bombay 1.

Indian Standard Metal Co., Ltd.—Chinchpokli Cross Lane, Bombay 27.

James Finlay & Co., Ltd.—Chartered Bank Bldg., Cannon Road, Bombay 1.

Jayant Metal Manufacturing Co.—924, Sayani Road, Bombay 28.

Kamani Engineering Corp., Ltd.—Kamani Chambers, Nicol Road, Ballard Estate, Fort.

Kamani Metals & Alloys Ltd.—Kamani Chambers, Nicol Road, Ballard Estate.

KAMANI TUBES PRIVATE LTD.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1-BR. Phone: 268.61. Manufacturers of Non-ferrous Rods, Pipes & Tubes. Works: Lal Bahadur Shastri Marg, Kurla, Bombay-70 AS. Phone: 555561.

Kumar & Company.—31, Dr. Deshmukh Lane, Bombay 2.

METALLICA WORKS PRIVATE LTD.—138/141, Govt. Industrial Estate, Kandivli (West), Bombay-62 (NB). Phones: 693211 (8 Lines). Makers of Non-ferrous Metals, Castings, Alloys, Anodes, Lead Sheets and Lead Wool.

MITRA AGENCIES PVT. LTD.—404, Arun Chambers, Tradeo Road, Bombay 34. Phone: 372160. Grams: "MITRAGENCY". Telex: 2665. Representing Anaconda Sales Co., 25, Broadway, New York 4, and New Jersey Zinc Co., 160 Front Street, New York 38. Indentors for Non-Ferrous Metals, Scrap, Residues, Ores, Minerals, Minor Metals, Tool & Alloy Steel, Ferro Alloy, Chemicals and Fertilisers etc.

Montana Ltd.—Rahimtoola House Homji Street, Bombay 1.

Non-Ferrous Metal Refinery.—24, Sitafalwadi, New Anjirwadi, Mount Road, Mazagaon, Bombay 10.

Popular Metal Works & Rolling Mills.—Behind Fish Market, Sion, Bombay 22.

PRAVINCHANDRA D. BROS.—105, Kika Street, Gulawadi, Bombay 4. Phone: 335-64. Grams: "RODSBRASS." Dealers & Stockists of Non-Ferrous Metals & Semi Finished products. Copper & Brass Rods, Pipes, Sheets, Sheathing, Wire Strips, etc. Phosphor Bronze Rods & Wires. Aluminium Sheets, Rods, Wires & Tubes, Stainless Steel Sheets, Tubes & Rods.

Premier Metals & Engineering Co., 11-B, Ardeshir Dady Cross Lane, Bombay 4-BR.

Standard Metal Works Private Ltd.—17, Dadajee Bridge, Bombay 34.

V. M. METAL CO.—Prop. V. K. Shah (Estd. 1950).—180, Kika Street, Bombay 4. Phone: 334543. Grams: "SHAKAGO" Girgaum. Dealers in Brass, Copper, Aluminium, Specialise in Industrial Sheets.

Vora Trading Co.—357-A, Vakli Bldg., Vadgadi, Bombay 3.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay 1.

NON-FERROUS METALWARE MANUFACTURERS

Bombay Brass & Metal Works.—Panjrapole 2nd Street, Bombay 4.

Eastern Aluminium Works.—18c, Old Anjirwadi, Bombay 10.

Gupta Metal Industries Ltd.—Gupta Mills Estate, Reay Road, Darukhana, Bombay 10.

Kamani Engineering Corporation Ltd.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1.

Kandivli Metal Works, C/o Messrs. Natwarlal & Co.—Dhobi Wadi, Thakurdwar, Bombay 2.

LALUBHAI AMINCHAND PRIVATE LTD.—Proprietors, "Dun Aluminium Factory," 225/27, Tardeo Road, Bombay 7. Manufacturers of "QUEEN" Brand Stainless Steel Utensils & "QUEEN" Brand Brasswares & Other Non-Ferrous Metalware. Phones: 377154 (4 Lines); 33398; & 333988. Telex: 011-2464. Grams: "CYCLEBRAND."

Oriental Metal Pressing Works Private Ltd.—131, Worli, Bombay 18.

Pitambarlals Lollubhai & Co.—36, Kansara Chawl, Kalbadevi Road, Bombay 2.

Standard Metal Works Ltd.—17, Falkland Bridge, Low Level, Bombay 7.

Tarkar, B. A.—50, Kansara Chawl, Kalbadevi Road, Bombay 2.

Vajeram Devchand & Bros.—21-22, Chirabazar, Dukerwadi, Bombay.

OFFICE EQUIPMENT & SUPPLIES

Apex Enterprises.—17/5th Floor, Mohatta Market, Palton Road, Bombay 1.

Ashok Typewriters.—40, Cowasji Patel Street, Ground Floor, Savoy Chambers, Fort, Bombay.

Artytoys.—Cowasji Jehanjir Colony, Tardeo, Bombay 7.

Bellares Private Ltd.—210-A Bhadkhamkar Marg, Bombay 7.

Bombay Safe Manufacturing Co.—307-9, Kalbadevi Road, Bombay 2.

Bombay Typewriting Institution.—Opp. The General Post Office, Bhatia Mitra Mandal, Fort Street, Fort, Post Box No. 936, Bombay 1.

FORBES, FORBES CAMPBELL & CO. LTD.—LATHAM DIVISION.—Forbes Building, Home Street, Fort, Bombay. Phone: 268081. Grams: "LATHAM."

General Equipment Merchants, Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

GENERAL OFFICE EQUIPMENT COMPANY.—Anand Bhuvan, 3rd Floor, Dr. D. Naoroji Road, Fort, Bombay. Phone: 25 046. Repairs and Maintenance of Typewriters and other office Machines.

General Typewriters (Bombay) Co., Private Ltd.—375, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Gestetner Duplicators Ltd.—Construction House, Ballard Estate, Bombay.

Gillanders Arbutnot & Co., Ltd.—16, Queen's Road Estate, Bombay 1.

Good Luck Steel Products.—401 B, Clerk Road, Jacob Circle, Bombay-11.

Govin's Safe Manufacturing Co.—266-68, Kalbadevi Road, Bombay 2.

JANAK MANUFACTURING WORKS.—Antop Hill, Wadala, Bombay 31. Manufacturers of Steel Shelving Racks and Canteen Equipment. Phone: 440171. Grams: "JANAK-BED" (MT). Showroom at: Kastur Nivas, 16/B, French Road, Off Hughes Road, Chowpatty, Bombay 7.

Jhaveri Bros. & Co. Private Ltd. (Estd. 1914).—345, Abdul Rehman Street, Near Crawford Market, Bombay 3.

METHODEX BUSINESS SYSTEMS.—33-A, New Marine Lines, Bombay-1. Grams: "RECORDS". Phone: 244173. Regd. & Sales Office: 3/44, Asaf Ali Road, New Delhi-1. Grams: "METHODEX". Phone: 274270. P-38, Mission Row Extension, Calcutta-13. Grams: "VISICARDS". Phone: 237535. Manufacturers of Business Equipment: Visible Card Record Cabinets for management Control, lateral simplified Filing System and Methodex filing Cabinets for visual Control records.

National Cash Register Co.—125, D. Vachha Road, Bombay 1.

National Steel Equipment Co.—Hind Rajasthan Industrial Estate, Wadala, Bombay 31.

NOBLE STATIONERY MART.—Parsi Bazar Street, P.O. Box 1981, Bombay 1. Phone: 254748. Grams: "CELLOTAPE." Manufacturing Stationers, Suggest Filing System, Ceeda Regd. Files.

REMINGTON RAND OF INDIA LIMITED.—Business that serves all businesses and business systems. Mehta Charity Trust Bldg., 15, Mathew Road, Bombay-4. Grams: "REMINGTONS."

Roneo Vickers

Specialists in the latest filing systems, visible records, postal/insurance franking machines and other modern aids to business efficiency.

Registered Office: 184, Jor Bagh, New Delhi 3.

Sales Offices: At Calcutta, Bombay, New Delhi, Madras, Hyderabad and Bangalore.

Distributors at other important centres in India.

Bombay Office: 39, Bastion Road, Bombay 1.

Telephone: 262140. *Grams:* "RONEOVICK".

Social Stationery Mart.—Victoria Building, P. Nariman, Fort, Bombay 1.

Steel Age Industries Private Ltd.—Opp. Post Office, Mazagaon, Bombay 10.

Steelmade, Dr. Annie Besant Road, Worli, Bombay 18.

Universal Typewriter Co.—31, Nawab Bldg., 327, Hornby Road, Bombay 1.

OIL BURNERS

Heatly & Gresham Ltd.—9, Forbes Street, Bombay 1.

Nestier Boilers Private Ltd.—Love Lane, Byculla, Bombay 27.

William, Jacks & Co., Ltd.—Hamilton House, Ballard Estate, Bombay 1.

OIL ENGINES AND SPARES

Acme Manufacturing Co., Ltd., The.—Construction House, Ballard Estate, Bombay.

AGRA ENGINEERING CO.—40, Bank Street, Fort, Bombay 1. Phones: Office: 256541; Res.: 532906. Grams: "RAJSPARES." Manufacturers of Diesel & Automobile Spare Parts, "ARROW" & "DISPA" Liners & Pistons for Diesel Engines, "MG" Pistons for Car, Trucks, Commercial Vehicles, Motor Cycles, Scooters & Tractors.

Associated Machine & Tool Co.—130, Medows Street, Fort.

B. KUMAR METAL WORKS.—Sitafalwadi, Mount Road, Mazagaon, Bombay 10. Phone: 373094. Grams: "BEKUMAR." Manufacturers of Oil Engines, Crank Shafts, Connecting Rods and other spares.

Bharat Electric & Engineering Corporation.—21, Dalal Street, Fort, Bombay 1.

Bharat Industrial Co.—77-79, Nagdevi Cross Lane, Bombay 3.

Brady, W. H., & Co., Ltd.—Churchgate Street, Fort.

Eastern Electric and Refrigeration Co.—14, Hamam Street, Fort, Bombay.

General Commercial and Industrial Co.—Vishram Bhuvan, 1st Floor, 41, Kolbhat Street, Bombay 2.

Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

Jack, William & Co.—Hamilton House, Graham Road, Ballard Estate, Fort.

Larsen & Toubro Ltd.—L. & T. House, Dougall Road, Ballard Estate, Bombay 1.

Volta Limited.—Strand House, Graham Road, Ballard Estate, Bombay 1.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate.

OIL MILLS (COMPANIES), IMPORTERS & EXPORTERS

Abmed Oomerbhoy Oil Mills.—Two Tanks, Bombay 8.

Bhavnagar Oil & Chemical Industries Private Ltd.—Sales Office: Bombay Mutual Building, Dr. Dadabhoi Naoroji Road, Fort, Bombay 1.

Bombay Oil Industries Pvt. Ltd.—Kanmoor House, Narshi Natha Street, Bombay 9.

Damji Manji (Estd. 1940).—208, Sandhurst Road, Bombay 4. Phones: Office: 333333, 333555 & 333777. Branch: 61602, Res: 41978. Grams: "OILTRADER". Dealers in Groundnut Oil, Coconut Oil, Castor Oil, Linseed Oil, Mustard Oil, Sesame Oil, etc. Importers of Copra, Coconut Oil & Palm Oil. Exporters of Oils, Oil Cakes.

Hindustan Oil Mills.—Nawab Mansion, 22, Gunbow, Street, Bombay 1.

Indu Oil & Soap Co.—Office: 335, Katha Bazar, Bombay 9.

Jamnadas Laljee Oil Mills.—Champsai Bhimji Wadi, Old Anjirwadi, Mazagon.

Jayant Oil Mills.—13, Sitafalwadi, Mazagon, Bombay-10.

Oomedchand Kashiram & Co.—Mudi Bazar, Bombay 3.

Swastik Oil Mills, Ltd.—Saltpan Road, Wadala, Bombay 31.

Tata Oil Mills, Co., Ltd.—Bombay House, 24, Bruce Street, Fort, Bombay.

Tide Water Oil Co. (India) Ltd.—32, Niccol Road, Ballard Estate, Bombay.

Wharton, W. H., & Co., Ltd.—339, D. N. Road, Fort, Bombay 1.

OIL SEALS

AGRA ENGINEERING CO.—40, Bank Street, Fort, Bombay 1. Phones: Office: 256541; Res.: 532906. Grams: "RAJSPARES." Manufacturers of Diesel & Automobile Spare Parts, "ARROW" & "DISPA" Liners & Pistons for Diesel Engines, "MG" Pistons for Cars, Trucks, Commercial Vehicles, Motor Cycles, Scooters & Tractors.

B. CHOUDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 263479. Grams: "BISUKHI." Sole Agents for: Carl Freudenberg, West Germany. "CFW" Simmering Oil Seals.

Kumar Commercial Co.—Nadirshaw Sukhia St., off Cawasji Patel St., Bombay 1.

Oil Seals Mfg. Co. (India)—Elphinstone Bldg., Nariman Road, Bombay 4.

Western Machinery Co.—Dossa House, Gunbow Street, Bombay 1.

OIL MILLS MACHINERY MANUFACTURERS & DEALERS

B. KUMAR METAL WORKS.—Sitafalwadi, Mount Road, Mazagaon, Bombay 10. Phone: 373094. Grams: "BEKUMAR." Engineers, Manufacturers and Contractors; Specialists in Oil Mill Machinery & Spares.

Bharat Electric & Engineering Corporation.—21, Dalal Street, Fort, Bombay 1.

BEHARAT INDUSTRIAL CORPORATION.—Manufacturers of Oil Expellers-Spares, Filter presses, Copra cutting machines, Baby Boilers, Solvent extraction plant, vegetable Ghee Plant, vegetable oil refinery plant, Elevators, Conveyors, Plate & Structural Fabrication. Petit compound, Grant Road, Bombay-1. Phone: 358061, Grams: "EXPPELPAAT".

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Grams: "ESSENCE." Phone: 318695. Importers, Exporters, Commission Agents and Manufacturers' Representatives.

Hindustan Engineering Co. (Machinery Dept.).—25, Ropewalk Street, Rampart Row, Fort.

Laxmi Engineering Works.—40, Khetwadi 10th Lane, Bombay 4.

Marshall Sons & Co. (India) Ltd.—Ballard Road, Bombay 1.

Oriental Engineering Co.—25, Forbes Street, Fort, Bombay 1.

Paramount Industrial Stores.—15, Ropewalk Street, Bombay 1.

Volta Limited.—Strand House, Ballard Estate, Bombay 1.

OPERATING HOUR METERS

JASHVANT C. SHAH & CO.—Bharati Nivas, Block No. 6, 1st floor, Besant Road, Santacruz (West), Bombay-54. Phone: 359710 & C/o 317587. Grams: "OTCASNART".

OPTICAL GOODS

MONTEX CORPORATION.—Yusuf Bldg., Mahatma Gandhi Road, Fort, Bombay 1. Manufacturers & Exporters of Spectacle Frames & Sun-Glasses.

Opti-Plast Corporation.—183, J. Shankarsheth Road, Opp. Galwadi, Bombay 4.

ROYAL OPTICAL INDUSTRIES.—Manufacturers and Exporters of all types of Spectacle Frames. Address: Naigaum Cross Road, Wadala, Bombay 31 D.D. Phone: 440175. Grams: "CELLULOID."

OPTICIANS

- Baliwalla & Homi Ltd.—365, D. N. Road, Bombay 1.
 Darbar Singh & Sons.—160, D. N. Road, Bombay 1.
 Ghaswala, Dr. K. S., L.M.&S.—Dr. Ghaswala's Eye Hospital, "Edena," 105, Queen's Road.
 Hatim Brothers.—302, Abdul Rehman Street.
 Helms-Optics.—Qualified German Sight Testing Opticians. 8, Esplanade Mansions, Fuller Road, Fort, Bombay 1.
 Homi & Co.—Dhootpapeshwar Prasad, Girgaum Road, Bombay 4.
 Kataria Optical Factory.—104, Clarke Road, Jacob Circle, Bombay 11.
 Lawrence & Mayo (India) Private Ltd.—274, Dr. Dadabhoi Naoroji Road, Fort, Bombay.
 Lund & Blockley.—Sassoon Institute Building, 150, Mahatma Gandhi Road, Fort.
 Mansukhlal & Co.—356, Kalbadevi Road.
 Phiroze M. Dastoor & Co.—379, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
 Remedios Opticians.—255, Dr. Dadabhoi Naoroji Road, Fort, Bombay 1.
 Takandas H. Kataria.—Showroom : 323-325, Abdul Rehman Street, Bombay 3.

ORTHOPAEDIC APPLIANCES MFRS.

- OPTIPLAST CORPORATION.—Contact Lens Manufacturers, 183, J. Shankarshet Road, Opp. Gaiwadi, Bombay-4. Mfrs. Life-Like Eyes, Micro-lenses, Moulded and Spherical Haptics, Cosmetic Contact Lenses. Wonderful invisible specs. made & fitted. Take a trial in Rs. 50 only. Phone : 354756.
 SMO ORTHOPAEDIC APPLIANCES.—183, Girgaum Road, Opp. Gaiwadi, Bombay-4. Suppliers to Surgeons & Govt. Hospitals, Thompson Heads, S. P. Pins & Plates and all types of K nails etc. made of EN58J as per Br. Std. Specifications. Phone : 354756.

OVENS MANUFACTURERS

- KOSHA ENGINEERING WORKS.—Swamy Vivekanand Read, Udyog Nagar, Plot No. 7, Gala No. 1 & 2, Goregaon (West), Bombay-62. Phone : 692960. Manufacturers of Industrial & Laboratory Ovens.

OXYGEN AND GAS FACTORIES

- Bombay Gas Co., Ltd.—Empire House, 214, Dr. Dadabhoi Naoroji Road (Hornby Road).
 Bombay Oxygen Corporation Ltd.—5, Convent Street, Bombay 1.
 Chapman & Co., K.—Opp. Marwari Vidyalaya, S.V.P. Road, Bombay 4.
 INDIAN OXYGEN LTD.—Ghatkopar (Lal Bahadur Shastri Marg), Bombay 77-AS. Phones : 582641 (7 lines), 582648, 582649 & 582782 ; Grams : "INDOXCO", Ghatkopar. Telex : 011-2391. Manufacturers of Oxygen, Dissolved Acetylene, Nitrous Oxide, Nitrogen gases, Argon, High Flying Oxygen, etc.
 Sanghi Motors (Bombay) Private Ltd.—39-A, Hughes Road, Bombay 7.

SANGHI OXYGEN

- Office : 39A, Hughes Road, Bombay 7
 Tel. No. 357831 & 357832.
 Factory : Mahal Industrial Estate,
 Mahakali Caves Road, Bombay 56.
 Tel. No. 573749.
 Sanghi R. K. — Managing Director.
 Sanghi M. K. — Director.

Sirdar Carbonic Gas Co., Ltd.—16, Apollo Street, Bombay 1.

PACKAGING

- AFZAL PAPER BOX FACTORY.—43, Foras Road, Bombay 8.
 Phone : 322338. Manufacturers of Cardboard Boxes and Corrugated Paper Rolls & Sheets.
 Artvtoys.—Cowasji Jahangir Colony, Tardeo, Bombay 34.
 Claridge, G., & Co., Ltd.—Bhagat Singh Road, Fort, Bombay 1.
 COLOUR CARTONS LIMITED.—Specialists in the manufacture of packaging materials for pharmaceutical, cosmetics and allied industries and engineering industry. Head Office : Ticcicon House, Dr. E. Moses Road, Bombay 11. Phone : 311381. Factory : Lake Road, Bhandup, Bombay 78. Phone : 593951.

DWARKADAS VELJI TALPATRIWALA.—36, Issaji Street, Bombay-3. Phones : 323232, 324332 & 321615-6. Factory : 371271. Grams : "VELTHAKKER." Waterproof Paper, Polyethylene lined & Paperlined Hessian, Polyethylene Sheets, Hessian Jute Twine, Duck Tarpaulins.

EVEREST PACKAGING CORPORATION.—Agra Road, Bhandup, Bombay-78. Phone : 581255. Manufacturers of Corrugated Shipping Containers, Cartons, Corrugated Paper & Boards. Outer boxes and Paper Packing requisites.

Jaydip & Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort, Bombay.

KADRI PAPER BOX FACTORY.—Mohamedali Road, Bombay 3. Phone : 332856. Cardboard and Corrugated Board Boxes of every size & description with Printing if required. Also Ampoule Boxes and Ampoule Trays. Grams : "BOXWORK."

LESLIE, E. & CO.—Botawalla Building, 7-10, Horniman Circle, Fort, Bombay. Professional Packers of Household effects, Removals, transporting, warehousing, insurance & Custom House Licensed Agents. Phone : 255540. Grams : "RITTA."

Mansukhlal Jechandbhai & Co.—181/183, Samuel Street (Khoja Galli), Bombay 9.

MOHAMADI FINE ART LITHO WORKS.—Proprietors : Ali-bhoi Sharafally & Co., Private Ltd. (Estd. 1878 ; Incorporated : 1938). Mohamadi Buildings, Gunpowder Road, Mazagon, Bombay 10 (DD). Lithographers, Offset and Letterpress Printers and Carton Manufacturers. Phones : 378148 & 378149. Grams : "KORAN".

MORARI PERAJ & CO., TALPATRIWALA.—138, Yusuf Meher Ali Road (Musjid Bunder Road), Bombay-3. Phone : 322352 (Office). Partner : Mr. J. S. Thakker. Residence, Phone : 473944. Grams : "TALPATRI." Manufacturers of "ELEPHANT" Brand 100 per cent Waterproof Tarpaulin & Polythene and Paper lined Hessian Bags. Wholesalers, Hessian Cloth, Canvas & Jute, Twine, Gunny Bags, Waterproof Paper, Eyelets, etc.

New Jack Printing Works.—Sekearia Mills Compound, Globe Mills Passage, off DeLisle Road, Bombay 13.

Paper Products Ltd.—Vaswani Mansions, 120, Dinshaw Vachha Road, Bombay 1.

Packers (India) Co.—38, Hamam Street, Fort, Bombay.

Standard Paper Box Manufacturing Co.—51, Mangaldas Road, Lohar Street, Bombay 2.

Swastik Paper Bag Co.—168/80, Bhimpura, Chinch Bunder Road, Bombay 9.

PACKAGED BOILERS

WANSON (INDIA) PVT. LTD.—8, Katrak Road, Wadala, Bombay 31. Phones : 441755 ; 442139 ; 442973. Grams : "VAPORAX", Matunga, Bombay. Manufacturers of Vaporax fully-automatic oil fired heavy duty packaged Steam Boilers, Vapor-Jet Steam Cleaners/Hot Water Boilers, Thermopae (Thermic Fluid Boiler). Evaporating capacities of Boilers : 100 kg/hr., 300 kg/hr., 600 kg/hr., 1000 kg/hr., 1500 kg/hr. and 2000 kg/hr. Capacity of Vapor-Jet : 200 g.p.h. of hot water.

PACKING CASES

Abba Ganl & Co.—1-2, Victoria Road, Mazagaon, Bombay 10.

ANAND TIMBER TRADERS.—170, Reay Road, Bombay 10. Phones—Office : 379199 ; Res. : 440144, Thana Factory : 593206.

Artvtoys.—Sir Ratan Tata Road, Tardeo, Bombay 34.

Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10.

Indian Commercial Agency.—Regd. Office : Nasir Palace, opp. Dockyard Railway Station, Mazagaon, Bombay 10.

Northern India Timber Corp.—63, Reay Road, Bombay 10.

Plastic Extruders Private Ltd.—204, Dr. Dadabhai Naoroji Rd., Fort, Bombay.

Podar Saw Mills.—61, Reay Road, Bombay 10.

Processed Timber Products.—104, Ghodbunder Road, Chunabhatti, Santa Cruz (West), Bombay 23.

PACKINGS AND JOINTINGS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 326980. Grams : "ALERTDEAL."

AMIRUDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, and Floor, Bank Street, Fort, Bombay 1. Phone : 257982, 2258633. Grams : "PILOTACE."

HIRALAL GOKULDAS DALAL & CO.—45, Nagdevi Cross Lane, Bombay 3. Phone : 321594. Grams : "HIRAGOCUL". "Fire-fly" Asbestos Textiles, Packings, Jointings, Millgin Stores, Engineering Hardware Tools.

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone : 324645. Grams : "REDJOINT."

R. Mohanlal & Co.—33, Bibijan Street, Bombay 3.

R. OCHHAVALAL & CO.—86, Nagdevi Street, Bombay-3. Phone: Office : 321114 ; Resi. : 351654. Grams : "VALVES". Authorised Distributors for Messrs. Hindustan Ferodo Ltd.—Turners, Jointings, Sheets, Packaging & Lagging & Asbestos. Stockists : Pipes, Fittings & Valves.

Shalebhoj Tyebjee & Sons.—12, Bruce Street, Fort, Bombay 1.
Vasi Shums & Co. Private Ltd.—Vasi Building, Nagdevi Street, Bombay 3.

PAINTING CONTRACTORS

Cooverji Hormusji & Sons, N.—598, Chira Bazar, Bombay 2.
Davar N. & Co.—Commerce Centre, Tardeo, Bombay 34 (W.B.).
Fleming John & Co., Private Ltd.—Sukhadwala Bldg., 21, Bastion Road, Bombay 1.

KAPADIA BROTHERS.—81, Abdul Rehman Street, Bombay 3. "Painting Contractors of Repute" also Dealers in : Paints, Enamels, Distempers, Plastic Emulsion Paints, etc. Chief Stockists of "NOBLE PAINTS." Phone : 324108. Grams : "DECORATORS."

NEW COLOUR SCHEME.—Painting & Decorating, contractors for Buildings, Flats, Offices, Factories etc., Free Estimate on request. Contact at 18, Commercial Chambers, Yusuf Meherally Road, Bombay-3 or 8, Lubina, 76 Turner Road, Bandra. Phone : 324668; Res : 534739.

New Era Paint Works.—Opp. Byculla Station, Bombay 27.
Osman Paints & Contracts Private Ltd.—T.K. Industrial Estate, Donde Cross Lane, Sewri, Bombay 15 (DD).

PRAVIN DECORATORS.—Artistic Paintings Contractors, Colour Scheme Specialists for Buildings, Flats, Offices, Factories, Mills, etc. Inquiries Invited. Contact 81, C. P. Tank Road, Bombay 4. Phone : 333844.

Vibayor (India) Private Ltd.—Ruby Ct., Woodehouse Road, Bombay 1.

PAINT RAW MATERIALS

CIBA OF INDIA LIMITED.—Royal Insurance Building, 14, Jamshedji Tata Road, Bombay-1. Phones : 295031-3; 296084-6, Suppliers of Epoxy Resins.

INDUSTRIAL MINERALS & CHEMICAL CO. PVT. LTD.—125, Narayan Dhuru Street, Bombay 3. Phone : 323721 (3 lines). Grams : "IMCHEL". Chemists & Mineral Merchants and Stockists of raw material for all Industries.

SULTANCHAND BIMAL PRAKASH & SONS.—30, Commercial Chambers, Masjid Bunder Road, Bombay No. 3. Grams : "DELICHEM". Importers & Suppliers of Paint, Raw material, Solvents, Pigments & Chemicals for Textile, Sugar, Glass & Ceramics Industries & Dyes Intermediates. Phones : Office: 323425 & 327636 ; Res. : 522544.

PAINTS, ENAMELS AND VARNISHES

Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3.
Abdeali Mohamedali Rangwala.—148, Nagdevi Street, Bombay 3.
Adamally Kikabhai Rangwala.—309, Shalk Memon Street, Bombay 3.

Allied Trading Co.—Importers & Stockists of all kinds of Enamels, Varnishes, etc., 39, Nagdevi Street, Bombay 3.

Advance Paints Ltd.—125, J. Master Road, Fort, Bombay 1.

Ahmed Moosa Motiwala & Sons.—Tank Road, Parel.

Ahmed Oomerbhoy.—Ahmed Oomer Street, Two Tanks, Grant Road.

AMIRUDIN SHALEBHOJ TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1. Phone : 257982, 256933. Gram : "PILOTACE".

Amritlal & Co., Ltd.—11, Spratt Road, Ballard Estate, Bombay 1.

Anzel Private Ltd.—Nusser House, N. P. Marg, Bombay 4.

Asian Paints (India) Private Ltd.—Normal, Backbay Reclamation, Bombay 1.

Baker Brothers.—31, C.P. Tank Road, Bombay 4.

Baker, M. & Co.—35, Nagdevi Street, Bombay 3.

Bassein Paint & Varnish Co.—D. Almeida Road, Bombay 50.

Beardsell, W. A., & Co., Ltd.—Dhan-Nur Bldg., Sir Phirozshah Mehta Road, Bombay 1.

BRIGHT & CO. PRIVATE LTD.—18, Commercial Chambers, Masjid Bunder Road, Bombay 3. Phone : 324668. Factory : Saki-Vihar Road, Kurla, Bombay 70. Phone : Factory : 581125. Grams : "PAINTMAKER." Manufacturers of all kinds of Paints, Enamels, Distempers, Varnishes, Lithographic & Paper Varnishes, Linseed oils, etc.

Chemidye Trading Co., Private Ltd.—Kamer Building, Cowasji Patel Street, Fort, Bombay 1.

COOPER & CO.—53, Abdul Rehman Street, Bombay 3. Phone : 323908. Grams : "COOPEROIL". Manufacturers of Paints, Enamels, Varnishes, Distempers, Emulsion Paints & Industrial Finishes.

Corbon Dry Colour Works.—115, Nagdevi Street, Bombay 3.

Dadajee Dhackjee & Co., Ltd.—Shree Pant Bhuwan, Sandhurst Bridge.

Fleming, John & Co., Private Ltd.—Sukhadwala Building, 21, Bastion Road, Fort.

Forage & Co.—36, Tamarind Lane, Tamarind House, Bombay 1. Phone : 258083 & 373902. Grams : "FORAGECO". Mfrs. of all kinds of white Zinc Paints, Stiff Paints, Ready mixed Paints, Varnish Paints, Enamels, Varnishes, Oil Bound Distempers, etc. Famous Brands "NEOLA" & "RAINBOW".

Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road Estate, Bombay 1.

Goodas N rolac Paints Private Ltd.—Forbes Building, Home Street, Fort, Bombay 1.

Goolamally Dawoodbhoy & Co.—23, Mangaldas Road, Princess Street, Bombay No. 2.

Harcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort, Holmes & Co., Ltd.—Alice Buildings, Hornby Road, Fort.

I. C. I. (India), Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.

Indianite Insulation Co. of India.—139, Medows Street, Fort.

Ishverdas Jugmohandas & Co.—Mubarak Manzil, Apollo Street, Fort.

Jasmer Co.—Mfrs. of N. C. Thinners and Primers. Dist. for Spartan Gasket Shellac & Acme Super Brake Fluid. Autho. Stockists for SARTAN PAINTS & CARBORUNDUM ABRASIVE PAPERS. 413-A, Lamington Road, Bombay-4. Grams : "SPRAYPAINT". Phone : 352708.

Jenson & Nicholson (India), Ltd.—Mackinnon Mackenzie Building, Ballard Estate, Bombay.

Kalapi Colour Trading Co.—42, Dadysbeth Aglary Lane, near G.T. High School, Bombay 2.

Kanthawala, N., & Co.—77, Medows Street, Fort.

KAPADIA BROTHERS.—81, Abdul Rehman Street, Bombay 3. "Painting Contractors of Repute" also Dealers in : Paints, Enamels, Distempers, Plastic Emulsion Paints, etc. Chief Stockists of "Noble Paints." Phone : 324108. Grams : "DECORATORS."

Mahomedbhoy Abdulhusein & Bros.—Opp. Ram Mandir, Nagdevi Street.

Munshi & Co.—48-A, Abdul Rehman Street, Bombay 3.

Narotamdas & Co.—179-A, Abdul Rehman Street, Bombay 3.



CHIEF STOCKISTS

KAPADIA BROTHERS

Paint Merchants & Paintings Contractors of Repute

81, ABDUL REHMAN STREET, BOMBAY 3.

Gram : "DECORATORS".

Phone : 324108.

National India Engineering Co., Ltd.—7, Horniman Circle, Fort, Bombay 1.

Nasarally Mulla Jivaji & Co.—116, Yusuf Meherally Road, Bombay 3.

Nazarally Samsuddin & Sons.—283, Sheikh Memon Street.



NOBLE PAINT & VARNISH CO. PRIVATE LIMITED

FERGUSON ROAD, LOWER PAREL, BOMBAY 13.

Phone : 373123 4

Chief Selling Agents:

John Fleming & Co. Private Limited

21, Bastion Road, Fort, Bombay 1. Phone : 261153

New Era Paint Works (Estd. 1934).—Opp. Byculia Station, Bombay 27.

Pallonji, M., & Co. Ltd.—87, Abdul Rehman Street, Bombay 3.

Paulson Paint Cellulose Works.—Behind Shrikant Studio, Borle Road, Bombay 71.

PLAS-FAB PRIVATE LIMITED.—Advent, 7th Floor, 12A, General J. Bhosle Road, Bombay-1. Phone: 214258. Grams: "FILTERFAB". Leading Suppliers of all types of Woven and Non-woven Filter Cloth and industrial Machine Clothing.

R. T. MEHTA & CO.

Manufacturers of:

"RED ROSE" Brand Ready Mixed Paints, Varnish Paints, Stiff Paints. "ARTEELACE" Enamel & "ROBINSON" Brand Dry & Oil Bound DISTEMPER.

Office: 31, Nanubhai Desai Road,

Opp. Sutargali, Bombay-4 BR.

Gram: "DISTEMPER".

Phone: 333686 (Office); 581932 (Factory).

RAJKAMAL SUPPLYING STORES.—295, Abdul Rehman Street, Bombay 3. Phone: 321895. Grams: "RAJPAINT." Direct Importers and Stockists of Paints, Dry Colours, Brushes and Artist's Materials. Manufacturers of Chromes, Lakes, Dry Distemper & Poster Colours. Partners: Shri Abdulla Enayataly Topiwala; 33, Sutar Chawl, 2nd Floor, Bombay-2. Shri Ishak Salebhai Lakhia; 28, Sutar Chawl, 4th Floor, Bombay-2.

Real Paint & Hardware Mart.—105, C. P. Tank Road, Bombay 4.

Salehbhoy Tyebbhoy & Co. (Estd. 1865).—Tyebji Building, 93, Nagdevi Street, Bombay 3.

Shaw Wallace & Co., Ltd.—3, Wittet Road, Ballard Estate.

SHALIMAR PAINTS LIMITED.—Hamilton House, 1st Floor, Graham Road, Ballard Estate, P.O. Box No. 1516, Bombay 1. Phone: 265012/265472.

Shivchand Amritlal & Co., Ltd., B.—Fort Chambers, Hamam Street, Fort.

Sigma Paints Limited.—221, Dadabhoy Naoroji Road, Bombay 1.

STAR PAINT & OIL INDUSTRIES.—Crescent Chambers, 56, Tamarind Lane, Bombay 1. Mfrs. of Industrial & Marine Paints & Synthetic Enamels. Specialists in "SILVEX" Aluminium Paint. Multi-purpose, Heatex Aluminium Paint, High Temperature Heat Resisting upto 1200°F. and Rubberex Rubber Paint (for Chemical Resisting). Grams: "STARPAINT." Phone: 253493, 297704.

SUNBEAM COLOUR WORKS.—Specialists in the Manufacture of High Class Poster Colours, Paste Colours, Lakes, Chromes & Other Dry Colours, Varnish, Paints and Enamels. Asha Studio Compound, Sion-Trombay Road, Chembur, Bombay 71. Phone: 321895. Grams: "RAJPAINT." Factory: 522140. Partners: Anant Mahadeo Gandbhir M.Sc., A-12, Mutual Colony, Mogul Lane, Mahim, Bombay-16. Phone: 455711. Abdulla Enayataly Topiwala, Room No. 6, 33-Sutar Chawl, Bombay-2. Ishak Salebhai Lakhia, 28 Sutar Chawl, Bombay-2. Fakhruddin Esuffally Rangwala, Kanchwala Building, 4th Floor, Room No. 26, 201, Nagdevi Street, Bombay-3.

Tyebally Dawoodbhai Rangwala.—29, Kika Street, Bombay 4.

TURNER, HOARE & COMPANY LIMITED.—Head Office:—Wavell House, 15, Graham Road, Ballard Estate, Bombay-1. Phone: 262711 (8 lines) Cable: "ENDEAVOUR." Code: ACME & BENTLEY'S. TELEX: 2282. Offices: Delhi, Calcutta & Madras.

Williams G. & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay.

PAPER & BOARD MILL MACHINERY MFRS. & SUPPLIERS

Gunvantray & Company.—Crescent Chambers, 1st Floor, Tamarind Lane, Bombay 1.

JASHVANT C. SHAH & CO.—Bharati Nivas, Block No. 6, 1st Floor, Besant Road, Santacruz (West), Bombay-54. Phone: 359710 & C/o 317587. Grams: "OTCASNART".

Paper Mill Plant & Machinery Manufacturers Ltd.—Jogeshwari Estates, 181, Ghodbunder Road, Jogeshwari, Bombay-60.

Williams G. & Co., Private Ltd.—"Advent," 8th Floor, 12/A, Fore-shore Road, Backbay Reclamation, Bombay 1.

PAPER BAGS MFRS.

NATIONAL PAPER BAG CO.—168, Bhimpura, Chinch Bunder, Bombay 9. Phone: 333239. Grams: "PAPERBAG." Manufacturers of Paper Bags, Plastic Bags, Carrier Bags, etc. Rajesh Brothers.—182, Narshi Natha Street, Bombay-9 (BR).

PAPER BOX MFRS.

EVEREST PACKAGING CORPORATION.—Agra Road, Bhandup, Bombay-78. Phone: 581255. Manufacturers of Corrugated Paper & Boards, Outer Boxes and Paper Packing Requisites.

KADRI PAPER BOX FACTORY.—30, Mohamedally Road, Bombay 3. Phone: 332856. Cardboard and Corrugated Board Boxes of every Size and description with printing if required. Also Ampoule Boxes and Ampoule Trays. Grams: "BOXWORKS."

PAPER CONVERTORS

BAKER & CO. PRIVATE LTD.—Oomrigar Building, 1st Floor, Opp. Crawford Market, Bombay 3. Phone: 324984. Grams: "BAKERCO." Factory at 66, Off Haines Road, Worli, Bombay 18. Manufacturers of Paper Plates, Ice Cream and Drinking Cups, Gift Boxes, Fancy Wrapping Paper, Paper doilies, Paper Napkins & Flexible Packaging. Dealers in Bakery & Confectionery Machinery, etc.

IDEAL WRAPPERS PRIVATE LTD.—Advani Chambers, Sir Phirozshah Mehta Road, Fort, Bombay. Phones: Office: 260031; Factory: 591444. Grams: "LAMINATED." Manufacturers of "Himalaya" Drinking Straws.

National Cardware Manufacturing Co.—Victoria Mill Compound, Gamdevi, Bombay 7.

PAPER MERCHANTS

ABDULLABHAI FIDAALLI & CO. (Estd. 1890).—18, Princess Street, Bombay 2. Indenting Agents & Stockists of all kinds of Paper, Boards and Newsprint. Phones: 315407 & 319977. Grams: "PAPERPORT."

Advani, J. B., & Co., Ltd.—Advani Chambers, Top Floor, Sir Phirozshah Mehta Road, Fort.

Akbarally Abdulhusain & Co.—19, Sutar Chawl, Bombay 2.

Ambalal Dharamchand & Co.—1, Esaji Street, Vadgadi, Bombay 3.

AMOL PAPER SYNDICATE.—Syndicate Bank Bldg., Sir P. M. Road, Bombay-1. Branch: 30, Govindappa Naick Street, Madras-1.

Amritlal, K., & Co.—27-29, Mirza Street, Parsi Galli.

Asiatic Paper Company.—56, Sutar Chawl, Bombay 2.

ASOK BROTHERS PRIVATE LTD.—104, Apollo Street, Fort. Phone: 254329. (Office) and 368118 (Res.) Grams: "ASOK-BROS". Importers of all sorts of Paper and Boards.

Associated Agencies (Bombay).—Podar Chambers, S. A. Brelvi Road, Fort, Bombay 1.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay 1.

Bansal Dhar Kapoor & Sons.—73-75, Mirza Street, 3rd Floor, Bombay 3.

Beardsell, W. A., & Co., Ltd.—Dhaw-Nur Bldg., Sir Phirozshah Mehta Road, Fort, Bombay 1.

BHARAT PAPER MART (Estd. 1932).—Bharat Bhuvan, 51, Sutar Chawl, Bombay 2. Grams: "GLAZE." P.O. Box No. 2245. Phone: Office: 325329. Res.: 355727. Distributors for Titagur Paper Mills, India Paper Pulp Co. and Bengal Paper Mill Co. Ltd., Calcutta.

BOMBAY SALES AGENCIES.—51-52, Podar Chambers, Parsee Bazar Street, Bombay 1. Phones: 250165 & 258513. Grams: "PANQUICK." Authorised Distributor for West Coast Paper Mills Ltd., Dandeli and Andhra Pradesh Paper Mills Ltd., Rajahmundry.

Bombay Stationery Kart.—7-A, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Cama, Norton & Co.—Cama Chambers, Fort, Bombay.

Chalasani & Co.—Noble Chambers, Parsi Bazar Street, Fort.

Chhaganlal Keshavjee.—22-A, Parsi Bazar Street, Fort.

Chimanlal & Co.—38/42, Shamsett Street, Bombay.

Chimanlal Paper Company.—Macmillan Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

C. T. Mehta Bros.—Noble Chambers, Parsi Bazar Street, Fort, Bombay 1.

D. R. Patodia & Co.—Warden House, Sir Phirozshah Mehta Road, Fort, Bombay.

Deccan Paper Mart.—52, Mirza Street, Bombay 3.

Dharia, R., & Co.—82, Sutar Chawl, Bombay 2.

EAST INDIA PAPER CO.—5A/5B, Court Chambers, 35, New Marine Lines, Bombay-20. Phone: 297740. Grams: "INDIA-PRINT". Chief Distributor for Maharashtra & Sole Distributors for Gujarat & W. Bengal of the Ballarpur Paper & Straw Board Mills Ltd. Distributor for Bombay of the Nepa Mills. Branches at Calcutta, Ahmedabad & Poona.

Eastern Paper Co., Ltd.—No. 44, Sutar Chawl.
Elof Hansson Agency Ltd.—Court Chambers, New Marine Lines, Bombay 1.

Empire Traders.—Stationers, Printers & Paper Merchants, 18, Hassan Chambers, S. A. Brelvi Road, Bombay 1.

Fidahoosain Shamsuddin & Sons.—15, Mirza Street, Parsi Gully, Bombay 3.

FINLAY, JAMES & CO., LTD.—Chartered Bank Bldg., Mahatma Gandhi Road, Fort, Post Box No. 73, Bombay 1. Phone Nos. 258355-59.

Friends Paper Stores.—299, Abdul Rehman Street, Opp. Safe Co-operative Bank Ltd., Bombay 3.

GANDHI BROTHERS.—203, Dr. Dadabhoy Naoroji Road, Bombay 1. Phone: 261345. Wholesale Dealers in all kinds of Paper & Boards & Agents for "Silverseal" Gummed Postal Stamp, Label and Transfer Decal Papers.

GEORGE F. HITCHMAN.—Waterloo Mansions, Opp. Museum, Bombay 1. Phone: 212173. Grams: "INDOPAPER." Paper Merchants & Manufacturers' Representatives; Parsons & Whittemore Ltd., London.

Getz Bros. & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road.

Haveliwalla Paper Mart.—"Zainab House," 34-36, Mirza Street, Bombay 3.

Hoosain & Bros., M. A.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

India Paper Corporation.—64, Sutar Chawl, Bombay 2.

Indulal & Company.—45, Tamarind Lane, Bombay 1.

International Impex Corporation.—18, Motibai Jamnadas Building, 64, Sutar Chawl, Bombay 2.

International Paper Co.—26 People's Building, Sir Phirozshah Mehta Road, Fort.

Jai Dayal Kapur.—31, Sutar Chawl, Bombay 2.

James Finlay & Co., Ltd.—Mahatma Gandhi Road, Bombay 1.

J. N. Singh & Co. Private Ltd.—63, S. Gandhi Marg, Bombay 2.

Kikabhoy Chandabhoy.—33-35, Mangaldas Road, Bombay 2. Phone: 24601. Grams: "Creamlaid."

Kimex (India) Ltd.—Rajabhadur Building, Tamarind Street, Fort, Bombay 1.

Laxmi Commercial Co.—44, Mirza Street, 1st Floor, Bombay 3.

M. A. Desai & Co.—106, Medows Street, Post Box No. 1110, Fort, Bombay.

MAEVY & COMPANY.—Nawab Building, 4th Floor, 327, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Phone: 258135.

Mahesh Paper Mart.—13, 2nd Agiary Lane, Dhanji Street, Bombay 3.

Mahomedally Hebatbhoy & Co.—15, Mirza Street, Bombay 3.

Model Art Printery Ltd.—4, Nanabhai Lane, off Churchgate Street, Fort.

Multani Paper Mart.—302, Kalbadevi Road, Bombay 2.

Natverlal & Bros.—40, Sutar Chawl, Bombay 2.

Noble Paper Mart.—Hassan Chambers, Parsee Bazar Street, Fort, Bombay.

Ochavial & Bros.—62, Sutar Chawl.

Pavri Sons & Co.—95-97, Bazar Gate Street, Fort.

Pimco Sales Agencies.—85, Dhanji Street, Bombay 3.

P. Kirpalani & Co.—Bulakhidas Building, 11, Vithaldas Road, Bombay 2.

Praful Paper Mart.—54, Sutar Chawl, Bombay 2

PRAHLADRAI DALMIA & SONS.—51-52, Podar Chambers, Parsee Bazar Street, Fort, Bombay 1. Phones: 250165 & 258513; Grams: "PANQUICK." Authorised distributors for paper & boards manufactured by Rohtas Industries Ltd., Dalmianagar.

PROVINCIAL PAPER CO.—Jawahar Mansion, Thakurdwar Road, Bombay-2. Distributors for Rohit Pulp & Paper Mills Ltd. Titagur Paper Mills Ltd., Mysore Paper Mills Ltd., & Bengal Paper Mill Co. Ltd. Phone: 30502.

R. Kantilal & Co.—Zaveri Bhuvan, 2nd Agiary Lane, Parsi Gully, Bombay 3.

Rowlandson Bros. (Estd. 1927).—Podar Chambers, 109, S. A. Brelvi Road, Fort, Bombay 1.

ROYAL PAPER STORES.—Mapla Bldg., 187-89, Abdul Rehman Street, Bombay 3. Phone: 321103.

S. Kumar & Co.—People's Buildings, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Saif & Co.—36, Sutar Chawl, Bombay 2.

Shah & Company.—Bank of Baroda Building, Palton Road, Bombay.

Shambhulal A. Shah & Co.—Podar Chambers, S. A. Brelvi Road, Fort, Bombay 1.

Shantilal Shah & Co.—Bombay Mutual Annexe, 17, Gunbow Street, Fort, Bombay 1.

SHREE KRISHNA COMMERCIAL CORPORATION

Distributors for :

West Coast Paper Mills Ltd.
Andhra Pradesh Paper Mills Ltd.
Bengal Paper Mill Co. Ltd.

Head Office :
 29, Strand Road,
 Mohta House,
 (2nd Floor),
 Calcutta-1.

Branch Office :
 75/79, Old Hanuman
 Lane, 4th Floor,
 Bombay-2 BR.

Phone : 220114.
 Grams : "MIGHT".

Phones : 314548 & 316997.
 Grams : "ANJNIPUTRA"
 BR-2.

Standard Paper Co.—74, Sutar Chawl, Bombay 2.
Sultanali Mohamadali (Estd. 1895).—148, Sarang Street, Bombay 3.
Superior Stationery Mart.—117, Nagindas Master Road, Fort, Bombay 1.
Swastik Paper Mart.—54, Sutar Chawl, Bombay 2.
United Company.—Peerbhoy Building, 89, S. Gandhi Marg, Bombay 2.
Variety Paper Co.—Maher House, 15, Cawasji Patel Street, Fort, Bombay.

PAPER MILLS

AJANTA PAPER & GENERAL PRODUCTS PVT. LTD.—Manufacturers of high grade M. G. White & Coloured tissue paper, M.G. poster, M.G. Blue Candle, M.G. tea yellow & all kinds of M.G. papers. Address: Vadavali, P. O. Kalyan, Dist. Thana. Grams Address: AJAJTA PAPER, Kalyan. Phone: 295, Kalyan Factory.

WEST COAST PAPER MILLS LTD.—Regd. Office: Shree Nivas House, Waudby Road, Bombay 1. Phones: 268241, 288245, 261224, 264456. Mills at Dandell, North Kanara Dist. Manufacturers of Writing, Printing & Kraft varieties.

PENCIL MANUFACTURERS

Bombay Pencils Private Limited.—Kamer Bldg., Cawasji Patel Street, Fort, Bombay-1.

HINDUSTAN PENCILS PRIVATE LTD.—111/112, Himalaya House, Phaltan Road, Bombay 1. Phone: 261972. Grams: "WRITERSFINE." Manufacturers of "APSARA" Drawing Pencils and "NATARAJ" Writing Pencils.

PERFORATED METAL SHEETS MFRS.

HARISHCHANDRA & CO., JALIWALA.—233, Abdul Rehman Street (opp. Sutar Chawl), Bombay 3. Manufacturers of Perforated Metal Sheets of all kinds, and Stockist of Welded Mes, Expanded Metals, Wire Netting of all kinds. On Govt., Railway & Municipal Lists. Phones: 322907 & 323161. Grams: "HARIJALI."

METAL PERFORATORS PRIVATE LTD.—Manufacturers of Industrial Metal Screens in any sheet, Metal & Material Mild Steel, Stainless Steel, Brass, Copper, Aluminium, Monel & Zinc etc. Address: Yudyog Nagar, Udhna (Dist. Surat) Phone: 310. Bombay Office: Anees Chambers, Carnac Road, Bombay-1. Telephone: 263001. Telex Bombay 011-2624. Grams: "DUTYBOUND" Bombay.

Metal Perforators.—43, Abdul Rehman Street, Bombay-3.

S. MEHTA & CO.—Anees Chambers, Carnac Road, Bombay 1. Phone: 263001. Grams: "DUTYBOUND" Telex. 011-2624. Industrial Wire Netting and Perforated Metals, Stainless Steel Wire Nettings, Monel and Metal Wire Nettings; Importers, Exporters and Merchants.

PERFUMERS & PERFUMERY RAW MATERIALS

A. Boake, Roberts & Co. (India) Ltd.—Harilela House, Mint Road, Fort, Bombay 1 (BR).

Akbarally Ebrahimji Pharmacy & Department Stores.—45, Veer Nariman Road, Bombay 1.

Allwyns Private Ltd.—92, Ardeshir Dady Street, Vithalbhai Patel Road, Bombay 4.

Anil Trading Co.—Nr. Tata School of Scientific Research, Bombay 71.

AROMATIC PRODUCTS & CHEMICALS PRIVATE LTD.—42, Prospect Chambers Annexe, Dr. Dadabhai Naoroji Road, Fort. Phone: 257991. Grams: "DISCOVERY." Stockists of Imported Perfumery, Raw Materials and Manufacturers of Perfume Compounds.

B. C. PATEL & CO.—Devkaran Building, Princess Street, Bombay 2. Stockists of Aromatic Chemicals, Essential Oils & Perfumery Compounds. Phone: 310366. Grams: "SNEHALATA."

Bhalchandra Upasani.—352, Golanji Hill Road, Bombay 12.
Bombay Chemicals Private Ltd.—129, Mahatma Gandhi Road, Bombay 1.

CALCUTTA ESSENCE SUPPLY CO.—Mulchand Mansion, 1st Floor, Princess Street, Bombay 2. Grams: "SUPRALUX." Phone: 312623. Dealers & Importers of Essential Oils, Aromatic Chemicals & Perfumery Compounds. Branch at: 41, Ezra Street, Calcutta 1. Phone: 341263.

Chavannes & Co., Private Ltd.—Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1.

Chimanlal Maganlal & Co.—Devkaran Mansion, S. Gandhi Marg, Bombay 2.

Chunilal Prabhudas & Co., (Bombay) Private Ltd.—Himalaya House, 410, Palton Road, Bombay 1.

D. D. Shah & Co.—Damodar Building, 105, Princess Street, Bombay 2.

Derby & Co.—P. B. Press Building, 299, Frere Road, Fort.

D. G. Gore.—31, Mangaldas Road, Princess Street, Bombay 2.

Eastern Aromatics.—105, Hindu Colony, 4th Road, Dadar Bombay 14.

Enamdar Trading Co.—Devkaran Mansion, 63, Princess Street, Bombay 2.

Ethical Products (India) Private Ltd.—Advani Chambers, Sir Phirozshah Mehta Road, Bombay 1.

Eve Fabrics Private Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay.

Fedco Private Ltd.—Mafatlal House, Backbay Reclamation, Bombay 1.

Foreign Scent Supply Syndicate.—Scent House, Goregaon West, Bombay 62.

GENERAL IMPORT CO. (INDIA).—Keshav Bang, 102, Princess Street, Post Box No. 2376, Bombay 2; Phone: 314497. Grams: "SODALEMON". Aromatic Chemicals, Essential Oils, Aerated water requisites, Essences, Harmless Food Colours and Saccharine.

GOLDENSUN MANUFACTURING CO.—Distillers & Manufacturers of Highly Concentrated Fruit & Flower Essences & Essential Oils, Perfume, Compounds, etc. Bansilal Building, 64-C, Girgaum Road, Bombay 4. Sales Office: Mulchand Mansion, Princess Street, Bombay 2.

Grand Bazar.—Nawas Mans on, Colaba Causeway, Bombay 1.

G. P. Patel & Co.—Mansoor Building, S. Gandhi Marg, Bombay 2.

Hani & Co.—Perfumers. Cutlery Market, Jumma Masjid, Bombay 2.

Harrison & Co.—168-170, Cumballa Hill.

Hasanali Kamroodin.—10, Shamset Street, Chippi Chawl, Bombay 2.

Hira, P. H. & Co.—18-20, Princess Street, Bombay 2.

H. M. Zakaria & Bros.—Perfumers, 299, East Sandhurst Road, Bombay 3.

Ina Trading Co.—35 Vithaldas Road, Princess Street, Bombay 2.

International Import Export Co.—Botawala Building, Elphinstone Circle, Churchgate Street, Bombay 1.

INDUSTRIAL PERFUMES LTD.—Head Office: 3rd Floor, Army & Navy Building, Mahatma Gandhi Road, Bombay 1, Phone: 255526/9 Extn. 3 & 4. Factory: Hay Bunder Road. (Tata Oil Mills Compound), Sewri, Bombay 33. Phone: 373331. Manufacturers of Aromatic Chemicals and Perfumery Compounds.

Jayantilal & Co., B.—15, Mangaldas Road, Princess Street, Bombay 2.

J. L. Morison Son & Jones (India) Ltd.—Contractor Bldg., Ballard Estate, Bombay.

Kalapi Store.—53-56, Swadeshi Market, Kalbadevi Road, Bombay 2.

Kapadia & Co.—Bell Building, Sir Phirozshah Mehta Road, Bombay 1.

Madon, M. T., & Co.—99, G. B. Desai Road, Bombay 26.

Madon, Sons & Co.—Madon Mansion, Hughes Road, Bombay 7.

Manek Chemical Company—Bhadaran Nagar, Ghodbunder Road, Malad, Bombay.

M. B. Thakkar.—105, Princess Street, Bombay 2.

M. C. DAVAR & CO.—143, Princess Street, Bombay 2. Phone: 315752. Grams: "EMCIDAVAR." Aromatic Chemicals, Essential Oils and perfumery materials. Agents for Givaudan Dubendorf Ltd. (Formerly Esrolko), Switzerland.

M. D. Patel & Co.—Devkaran Mansion, Princess Street, 1st Floor, Block No. 1, Bombay 2.

Mehta Nariman & Co.—"K" Building, Fort Street, Bombay 1.

Mercantile Essential Oil Co.—5, Mint Road, Fort, Bombay 1.

M. M. Khambatwala, C/o C. Narottam & Co.—Mangaldas Road, Bombay 2.

M. R. Mody.—Mangaldas Building, Mangaldas Road, Bombay 2.

Mysore Products Ltd.—191, Princess Street, Bombay 2.

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N. R. SHAH & COMPANY.—Mulchand Mansion, Princess Street, Bombay 2. Phone No. 20093. Grams: "WALLFLOWER". Perfumers and Perfumery Raw Material Dealers. Dealing in Aromatic Chemicals, B.P., Natural, Synthetic Essential Oils and Perfumery Compounds.

New Chemical Industries, The.—Antio House, Edalji Road, Thana.

NEW INDIA AROMATICS CO.—Devkaran Mansion No. 3, 45/47, Princess Street, Bombay 2. Grams: "PANBILAS" Bombay 2. Manufacturers of Synthetic Essential Oils (Industrial Perfumes) used in Perfuming: Hair Oils, Brilliantine, Face Cream, Scents, Agarbattis, Zarda, Snuff, Chewing Tobacco, Face Powder, Toilet Soaps, etc., etc.

Otto Manz.—14, Hamam Street, P.O. Box 1550, Bombay 1.

Patanwala Private Ltd.—182-84, Abdul Rehman Street, Bombay 3.

P. Chunilal & Co.—Mulchand Mansion, 2nd Floor, Princess Street, Bombay 2.

PEARLINE-PARIS PRIVATE LTD.—Rehman Building, 24, Veer Nariman Road, Bombay-1. Phone: 250037. Grams: "PEARLAB."

P. Muncherji & Co.—10, Hamam Street, Bombay 1.

Purshottam Laxmichand.—Bulakhidas Building, Princess Street, Bombay 2.

Rayon Industries.—Navyug Mansion, Sleater Road, Bombay 7.

R. K. Shapurji & Co.—Prospect Chambers, 319, Hornby Road, Bombay 1.

Roshanlal & Sons.—133, Princess Street, Gopal Nivas, Bombay 2.

R. Randow.—Kitab Mahal, Hornby Road, Bombay 1.

Sepulchre Brothers (India) Private Ltd.—Import Dept., Taj Building, Hornby Road, Bombay 1.

S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 3.

Sikri Brothers (Bombay).—79-E, S. Gandhi Marg, Bombay No. 2.

S. Javeri & Co.—Devkaran Mansion, Block No. 3, 3rd Floor, Princess Street, Bombay 2.

Tata Oil Mills Company Ltd.—Bombay House, Bruce Street, Bombay.

Volta Limited.—Strand House, Graham Road, Ballard Estate, Bombay 1.

Weil Company.—Chateau Marine, Subhas Road, Bombay 1.

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Balmer Lawrie & Co. Ltd.—5, Graham Road, Ballard Estate, Bombay.

Burmah-Shell Oil Storage and Distributing Co. of India Ltd.—Burmah-Shell House, Currimbhoy Road, Ballard Estate, Bombay.

Caltex (India) Limited.—Caltex House, Ballard Road, Ballard Estate, Bombay 1 — BR.

Esso Standard Eastern Inc.—Esso Bldg., 17, Jamshedji Tata Road, Bombay 1.

GULF OIL (INDIA) PRIVATE LIMITED.—Steelcrete House, 3, Dinsha Watcha Road, Bombay 1. P.O. Box No. 1943. Phone: 295131 (3 lines). Grams: "GULFINDIA." Importers and Distributors of High Grade Lubricants. Area Offices: Ahmedabad, Hyderabad & Indore.

Indian Oil Company Ltd.—Clarke Road, Mahalaxmi, Bombay 34. Marketing and Distribution of Petroleum Products.

Indo-Burma Petroleum Co. Ltd.—Allahabad Bank Building, Apollo Street, Fort, Bombay.

PETROLEUM PRODUCTS

International Lubricants Private Ltd.—Court House, Dhobi Talao, Bombay 2.

PIONEER OIL COMPANY.—Importers & Distributors in Petroleum Products—Transformer Oil—Lubricating Oils, Greases, Petroleum Jelly and White Mineral Oil manufacturers. 354, Narsi Natha Street, Katha Bazar, Bombay-9. Phone: 325994.

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Alembic Chemical Works Co., Ltd., Baroda.—Distributors in Bombay. Alembic Distributors Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

AMRUTANJAN LTD.—249, P. D'Mello Road, Fort, Bombay 1. Phone: 261673. Grams: "AMRUTANJAN." Head Office: Madras. Other Branches: Calcutta, New Delhi, Ghaziabad and Hyderabad. Manufacturers of Amrutnanjan Pain Balm, Anoleum, Dermal Ointment, Inhaler, Gripe Mixture and Salofen.

Anglo-Thal Corporation Ltd.—Ewart House, Bruce Street, Bombay 1.

Asian Drug Corporation.—Podar Chambers, S. A. Brelvi Road, Ford, Bombay 1.

BAYER (INDIA) LIMITED.—Nagin Mahal, Vir Nariman Road, Bombay-20 (BR). Manufacturers of Agro-Chemicals, Rubber Chemicals, Pharmaceuticals, etc.

B. A. & BROTHERS (BOMBAY) PRIVATE LTD.—98, Princess Street, Bombay 2. Phone: 312939. Grams: "BABULINE."

BEECHAM (INDIA) PRIVATE LTD.—Manufacturers of Pharmaceuticals and Toiletory Products. Beecham House, Pitamberwadi, Off Lady Jamshedji Road, Mahim, Bombay-16. Phones: 453286 and 453287.

Bengal Chemical & Pharmaceutical Works Ltd.—502, Cadell Road, Bombay 28.

BIOLOGICAL EVANS LIMITED.—Das Chambers, 25, Dalal Street, Bombay 1. Phone: 256561, 256907. Manufacturers of Anti-T.B. Drugs, Sera & Bacterial Vaccines together with other fine Chemicals, Glandular Products and a Selection of Evans Medical Specialities.

Bock, F., & Co.—Shale Building, Bank Street, Fort.

Boehringer-Knoll Ltd.—United India Bldg., Sir P. M. Road, Bombay 1.

BOMBAY TABLET MANUFACTURING CO.—Sales Depot: 304, Princess Street, Bombay 2. Grams: "SACCHARIN." Factory: Tablet House, Near Goregaon Talkies, Goregaon (East), Bombay 63. Manufacturers of Pharmaceutical Products.

BOOTS PURE DRUG CO. (INDIA) LTD.—Registered Office: 12, Nicol Road, Bombay 1 BR. Phone: 261436. Grams: "DRUGBOOTS." Bombay. Factory: Sion, Bombay 22 DD. Phones: 472444 and 472445. Grams: "BURNOL."

CAMA, NORTON & CO.—Cama Chambers, 23, Meadows Street, Fort. Phone: 255354. Grams: "CAMANORTON."

CASTOPHENE MANUFACTURING CO.—Manufacturers of Fine Household Remedies such as Castophene Laxative, Capirin, Gripe Mixture, Cough Syrups and Tablets, Ointments etc. 85, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 372456. Grams: "CASTOPHENE". Branch at Delhi 6, and Agencies throughout India.

CHEMICAL, INDUSTRIAL & PHARMACEUTICAL LABORATORIES, LTD. (CIPLA).—289, Bellasis Road, Byculia, Bombay 8. Phones: 315211, 315212 and 315213.

Chemidye Trading Co., Private Ltd.—Kamer Building, Cawasji Patel Street, Fort, Bombay-1.

CHEMO-PHARMA LABORATORIES LTD.—Manufacturers of Ethical Pharmaceuticals and Fine Chemicals. Regd. Office & Factory: C. S. 215, Sewri, Bombay 15. Phone: 443231. Grams: "CHEMOLABS."

CIBA OF INDIA LIMITED.—Royal Insurance Building, 14, J. Tata Road, Bombay 1. Phones: 295031-3, 296084-6.

CROOKES INTERFRAN LIMITED.—Manufacturers of Pharmaceutical Chemicals & Cosmetics. Regd. Office: 254, D, Dr. Annie Besant Road, Bombay 25-DD.

Crookes Laboratories Ltd.—Court House, Carnac Road, Bombay 2.

CYANAMID INDIA LTD.—Producers of Broad Spectrum Antibiotics and other Pharmaceutical Products, Veterinary Products, Antibiotic Feed Supplements as well as Insecticides—Registered Office: 254-D(2), Dr. Annie Besant Road, Worli, Bombay 25-DD. Grams: "CYANAMID", Bombay. Western Regional Office & City Sales Depot: "The International," 16, Queen's Road, Bombay 20 BR. Grams: "LEDERSALES." Factory at P.O. Atul, Via Bulsar. Phone: 271, 273. Grams: "CYANAMID," Bulsar.

Dey's Medical Stores (Mfg.) Pvt. Ltd.—Raj Mahal, 3rd Floor, Churchgate Street, Bombay 1.

DR. BHALCHANDRA LABORATORY.—215, Charni Road, Girgaum, Bombay 4. Phone: 354721. Grams: "BHALLABS." Manufacturers of High Quality Pharmaceuticals and Ethical Specialities. Factory: Manpada, Ghodbunder Road, Thana.

Evans Medical Supplies (India) Ltd.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

FAIRDEAL CORPORATION (PRIVATE) LTD., THE.—Lakshmi Bldg., Sir P.M. Road, Fort, Bombay 1 (BR). Phone: 263593. Pharmaceutical Laboratories: 142-48, Swami Vivekananda Road, Jogeshwari, Bombay 60 (NB). Phone: 572408. Branches: Laha Pain. House, 7, Chittaranjan Avenue, Calcutta 13. Phone: 23-3157; 2, Errabalu Chetty Street, Madras 1. Phone: 24835.

GEOFFREY MANNERS & CO., LTD.—Manufacturers, Importers & Distributors of Pharmaceuticals, Fine Chemicals, Toilet Requisites and allied products. Head Office: Magnet House, Dougall Road, Ballard Estate, Bombay. Phone Nos. 26-1361-2-3. Bombay Sales Office: Cadell Road, Dadar, Bombay. Phone No. 453428. Factory: Hattersley Mills Estate, Bombay Agra Road, Ghatkopar, Bombay. Phones: 582361-2-3-4-5. Sales Offices: Calcutta, New Delhi, Madras, Bangalore, Gauhati, Kanpur, Faridabad, Ahmedabad, Jaipur and Patna.

GERMAN REMEDIES PRIVATE LTD.—Manufacturers and Importers of Pharmaceuticals, 'A' Building, 3rd Floor, Shiv Sagar Estate, Dr. Annie Besant Road, Bombay-18. Cables: "PHARMAGENT". Phones: 373666/7. Factory: Andheri Kurla Road, Bombay 69. Phone: 573421/2.

Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road, Bombay 20.

GLAXO LABORATORIES (INDIA) LTD.—Dr. Annie Besant Road, Worli, Bombay 18-WB. Grams: "GLAXOLABS," Bombay 18, Calcutta, Madras, New Delhi. Phone Nos.: Bombay H.O. 454311 (8 lines), 456466 and 456467; Bombay Branch: 452241 (2 lines); Calcutta: 45-2015 (3 lines); Madras: 801944 (4 lines); New Delhi: 76203 (3 lines); Manufacturers of Baby Foods, Pharmaceuticals, Antibiotics, Corticosteroids, Vaccines, Oral Contraceptives, Laboratory Chemicals and Fine Chemicals.

HIMALAYA DRUG CO.—Pharmaceutical Manufacturers, 251, Dr. Dadabhoy Naoroji Road, Bombay 1. Phones: 262222 and 262223. Grams: "SERPINA".

Hoechst Pharmaceuticals Private Ltd.—Dugal House, Backbay Reclamation, Bombay.

Imperial Chemical Industries (India) Private Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.

IPCA LABORATORIES PVT. LIMITED.—95, Morland Road, Byculla, Bombay 8; Phones: 374280 & 374638; Grams: "IPCAPHARM." Manufacturers of Pharmaceuticals & Biological Products.

Indo-Pharma Pharmaceutical Works Private Ltd.—Kohinoor Road, Dadar, Bombay 14; Managing Director: J. R. Parikh.

International Chemical Co. Ltd.—Magnet House, Dougall Road, Ballard Estate.

John Wyeth & Brother Ltd.—(Incorporated in England with Limited Liability). Steelcrete House, Dinshaw Wachha Road, Backbay Reclamation, Bombay 1.

Juggat Singh's Son & Bro.—Regal Cinema Building, 41, Apollo Pier, Bombay-1.

KEMP & CO., LTD.—88/C, Old Prabhadevi Road, Bombay 28. Phone: 452251. Grams: "PHARMACY."

Khatau Valabhdas & Co.—Indian Globe Chambers, Fort Street, Bombay 1.

Little's Oriental Balm & Pharmaceuticals Ltd.—11, Western India House, Sir Phirozshah Mehta Road, Bombay 1.

Laboratories Grimault Private Ltd.—20, Haines Road, Bombay -11.

Lyka Labs.—Subhash Road (A), Vile Parle (East), Bombay 57.

MAC LABORATORIES PRIVATE LTD.—Great Social Building, Sir Phirozshah Mehta Road, G.P.O. Box No. 1831, Bombay 1. Phone: 265051, Grams: "MACLON." Manufacturing Chemists.

Manufacturing Analytical & Research Chemists Ltd.—Esplanade House, Waudby Road, Fort, Bombay.

Martin & Harris (Private) Ltd.—Savoy Chambers, Wallace Street, Bombay 1.

May & Baker (India) Private Ltd.—Karimjee House, Sir Phirozshah Mehta Road, Fort, Bombay.

MONSANTO CHEMICALS OF INDIA PRIVATE LTD.—Wakefield House, Sprott Road, Ballard Estate, Bombay 1. Phone: 26-2624. Grams: "MONSANTO," Bombay. Branch Offices:

(1) Monsanto Chemicals of India Private Ltd., 19, Rajendranath Mukherjee Road, Calcutta 1. (2) Monsanto Chemicals of India Private Ltd., 3/8, Asaf Ali Road, near Turkman Gate, New Delhi and (3) Monsanto Chemicals of India Private Ltd., Caithness Hall, 310/311, Linghi Chetty Street, G.T., Madras.

Napha—National Pharmaceuticals.—C. S. Track Road, Koli Kalyan, Aerodrome, Bombay 29.

Nicholas of India Ltd.—11/12, Off Haines Road, Bombay 18.

NYMPH LABORATORIES.—Manufacturers of Pharmaceuticals 164, Tulsi Pipe Road, Opp. Phoenix Mills, Bombay 13 (BC).

Okasa Co. Ltd.—12, Gunbow Street, Fort. Phone: 20206.

Oriental Pharmaceutical Industries, Ltd.—Kavarana Building, 64-66, Tulsi Pipe Road, Mahim.

PARKE DAVIS (INDIA) LTD.—Pharmaceutical Manufacturers, Saki Naka, Bombay 72 AS. Head Office for India and Ceylon. Telegraphic Address: "CASCARA," Bombay 1 BR. Post Box No. 88. Factory: Saki Naka, Bombay 72 AS. Phone: 581471 (8 lines).

PFIZER LIMITED.—Manufacturers & Distributors of a complete range of Pharmaceuticals, Animal Health Products, Pharmaceutical Chemicals, Agro-Chemicals and Nutritional Products; Registered Office: 163, Backbay Reclamation, Bombay 20. Phone: 295031 (10 lines); Offices & Depots: Ahmedabad, Ambala, Bombay, Bangalore, Calcutta, Cochin, Cuttack, Gauhati, Indore, Jaipur, Lucknow, Madras, New Delhi, Patna, Secunderabad and Srinagar. Plants: Milepost 9, Thana-Belapur Road, Kalwa, Thana. Phone: 592948; Powder Works Bunder, Darukhana, Bombay 10. Phones: 376141-2, 374033; 178, Industrial Area, Chandigarh, Phone: 5295 (3 lines).

PHARMED PRIVATE LTD.—25/31, Rope Walk Lane, Fort, Bombay 1. Phone: 254244, 254260. Grams: "PHARMED." Factory: Sion Trombay Road, Deonar, Chembur, Bombay 71. Phones: 521331/32/33.

R. S. Traders.—People's Insurance Bldg., P. Mehta Road, Bombay 1.

Roche Products Ltd.—28, Trade Road, Bombay—34-W.B.

Sandoz Products Ltd.—Dr. A. Besant Road, Worli, Bombay 18.

Sarabhai Merck Ltd.—110, Meadows Street, Bombay 1.

Shetty's Pharmaceuticals and Biologicals Ltd.—Sales Office: 361, D. Naoroji Road, Fort.

SIGMA LABORATORIES.—Plot No. 43 (South), Wadala, Bombay No. 31. Manufacturers of high quality Pharmaceutical Preparations & Specialities. Phone: 441458. Grams: "SIGMALAB."

Super Pharma Corporation, Ltd.—220, Jumabhai Lalji Building, Pydhonie Road, Bhat Bazar, Bombay 9. P. O. Box 904.

TATA FISON INDUSTRIES LIMITED.—Registered Office, Head Office and Spraying Service Section: Ralli House, 21, Ravelin Street, Bombay 1. Phones: 262936/77/83. Regional Office: Union Bank Building, Dalal Street, Fort, Bombay 1;

Telegraphic Address: "TATFISON," Bombay; Phones: 259054/55. Manufacturers of Agricultural and Household Pesticides and ethical pharmaceuticals products. Distributors in India—Rallis India Limited.

TEDDINGTON CHEMICAL FACTORY—A DIVISION OF RALLIS INDIA LTD.—Manufacturers of Pharmaceutical Specialities. Works: Suren Road, Andheri, Bombay 69. Phones: 571261/62. Office: Rallis India Ltd., Pharmaceutical Division, 21, Ravelin Street, Bombay 1. Phone: 262994, 268221.

Unichem Laboratories.—Jogeshwari, Bombay 60.

United Pharmaceutical Co.—Gokhale Building, J. Shankar Sheth Road, Bombay 4.

Voltas Ltd.—Strand House, Graham Road, Ballard Estate, Bombay 1.

WANDER LIMITED.—Shivsagar 'A', Dr. A. Besant Road, Bombay-18. Phone: 377765. Grams: "WANDERPAS." Manufacturers of Chemicals (Anti T.B. Drugs) and Pharmaceuticals. Factory: Sion-Trombay Road, Deonar-Chembur-Bombay 71. Phone: 521807.

Warner-Hindustan Limited.—Savoy Chambers, Wallace Street, Bombay 1.

Zandu Pharmaceutical Works Limited.—Gokhale Road South Bombay-28.

PHARMACEUTICAL MACHINERY & OTHER REQUIREMENTS SUPPLIERS

Batilbol & Company. (Props. Bhogilal Leherchand Pvt. Ltd.).—Regd. Office: Forbes Street, Bombay 1.

CARLS AERATING MACHINERY CO.—Diamond Building, Lohar Street, Bombay 2. Essences, Harmless Food Colours, Saccharine, Essential Oils, Crown Corks, Gelatine Powder, Citric Acid, Tartaric Acid & other Aerated Water and Pharmaceutical Requisites and Sole Distributors of "Rising Sun" Brand Essences. Grams: "MAGCHUCO" (K.B.), Bombay 2. Phone: 312543.

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Grams: "ESSENCE." Phone: 318695. Importers, Exporters, Commission Agents and Manufacturers' Representatives.

Gladwyn & Co.—251, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

K. MAHADEV & CO. PRIVATE LTD.—Datta Mandir Road, Bhandup, Bombay 78. Manufacturers of Chemical & Pharmaceutical Machinery.

Raj-Der-Kar & Co.—Sadhana Rayon House, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

TURNER, HOARE & CO. LIMITED.—Head Office: Wavell House, 15, Graham Road, Ballard Estate, Bombay-1. Phone: 262711 (8 lines). Cable: "ENDEAVOUR." Code: ACME & BENTLEY'S, Telex No.: 2282. Offices: Delhi, Calcutta & Madras. Engg. Factory: Tank Road, Bombay-33. Phone: 378544 & 374674. Manufacturers & Importers of "SHARPLES" Centrifugal machines for clarification, purification, separation and concentration in oil, food, chemical, pharmaceutical and other industries.

PHOTOGRAPHERS

Central Camera Company Ltd.—195, Dr. Dadabhoy Naoroji Road, (Hornby Road), Fort, Bombay.

Dave Brothers.—Waterloo Mansion, Apollo Pier, Fort.

Eos Studios.—427, Kalbadevi Road, Bombay 2. Phone: 27367.

Felicita Studios.—Babula Mansion, Chowpatty, Bombay 7.

FORWARD STUDIO.—(Kodak-Gold Medalist) for speaking portrait, Still & Cine out-door photography, lovely Finishing and life-like paintings, Designers, Block makers, Photostat & Artistic Frame Makers. For quick & quality service at moderate rates. Duthapeshwar Building, Mangalwadi, Girgaum, Bombay 4. Phones: 355225, 355330.

Gomes & Lawrie.—Empire Building, 136, Dadabhoy Naoroji Road, Bombay 1.

Industrial Art Studio.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort.

MODERN PHOTO STORES AND STUDIO.—358, Lamington Road, Bombay 7. Next to Lamington Road Police Station.

PHOTO-MASTERS.—23, Hamam Street, Bombay 1. Grams: "FOTOMASTER." Phone: 251381. Commercial Photography, 'Photostat' Copies, Microfilming, Filmstrips, Advertising & Documentary Films.

Popular Studio & Photographic Agency.—Lokmanya Dept. Stores, Bombay 28.

Press Photographer.—162, D. Naoroji Road, Fort.

Rembrandt & Vandykes.—Whiteaways Building, Hornby Road.

Sabnis Photo Studio.—Lady Jamshedji Road, opp. Post Office, Dadar.

Saraswati Art Studio.—Ghamat Terrace, opp. Western Rly. Station, Dadar.
S. Pereira.—Karanjia Building, 653-A, Girgaum Road, Dhobi Talao, Bombay 2.
Tasvir Make-up Photo Studios.—Thakurdwar Tram Terminus, Bombay 2.
T. M. Wadia.—Bombay Mutual Annexe, 4th Floor, Gunbow Street, Bombay 1.
Virkar, N. V., & Co.—Mohan Building, near Majestic Cinema, Girgaum Road, Bombay 4.
Zarapkar Photo Studios.—Head Office: 247, Girgaum Road. Branches: Dadar; Malvan; Savantwadi; Vengurla.

PHOTOGRAPHIC MATERIALS IMPORTERS AND DEALERS & MFRS.

Adair Dutt & Co. (India) Ltd.—Syndicate Bank Bldg., Sir Phirozshah Mehta Road, Fort, Bombay.
ACFA-GEVAERT INDIA LIMITED.—H.O.: Merchant Chamber, 41, New Marine Lines, Bombay-20. Phones: 298015, 298062 and 298164. Branch Office: Kasturi Building, Jamshedji Tata Road, Bombay-20. Phones: 296188 and 296189. Stores: 17, Victoria Bunder Road, Colaba, Bombay-5. Phone: 213480.
AMA PRIVATE LTD.—Canada Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay; P.O. Box 556, Phone: 265271 (3 lines); Grams: "AMALIMITED." Branch: Plaza Building, Connaught Place, New Delhi.
Central Camera Co. Ltd.—195, Dr. Dadabhoy Naoroji Road (Hornby Road), Fort, Bombay.
Continental Photo Stores.—243, Dr. Dadabhoy Naoroji Road, Bombay 1.
Datta & Co.—Ganga Nivas, Ranade Road, Dadar.
Dave Brothers.—Waterloo Mansion, Opp. Regal Cinema, Apollo Pier, Fort, Bombay 1.
Devare & Co.—Cutch Castle, opp. Opera House.
Great India Trading Co.—Beaumont Chambers, 27, N. Master Road, Fort, Bombay 1.
FORWARD STORES.—Mangalwadi, Girgaum, Bombay-4. Photographic Wholesalers, Retailers, Quick & True Reproduction of Documents, Life like Portrait Painters, Still and Cine Outdoor Photographer, Courteous Service. Phones: 355225, 355330.
HIRO PHOTO CINE STORES.—23/C, Phirozshah Mehta Road, Bombay 1. Phone: 253690 & 257062. Photographic goods Dealers.
KESHO RAM SURINDER NATH.—321, Commerce House, 3rd Floor, Meadows Street, Bombay 1. Leading Photographic Manufacturers & Wholesalers.
KESHO RAM & SONS (INDIA) PRIVATE LTD.—314, Commerce House, Meadows Street, Fort, Bombay 1. Grams: "PHOTOPAPER." H.O.: Chandni Chowk, Opp. Dariba, Delhi 6.
Kodak Limited.—Kodak House, Dr. Dadabhoy Naoroji Road, Fort, Bombay-1-BB.
Koparde & Khandke.—Empire Building, 136, D. N. Road, Bombay 1.
Koparde & Wadia.—71, Mahatma Gandhi Road, Fort (opp. Flora Fountain).
LOKAMANYA PHOTO PRODUCTS.—26, Gunbow Street, Bombay No. 1. Manufacturers of Photographic Papers & Pigment Papers.
MODERN PHOTO STORES & STUDIO.—358, Lamington Road, Bombay 7, next to Lamington Road Police Station.
NAYAK & CO.—Harganga Mahal, Khodadad Circle, Dadar, Bombay 14.
Orwo Private Limited.—Stadium House, Veer Nariman Road, Bombay 20.
Patel India Ltd.—190, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Ravel Brothers.—185, S. Gandhi Marg, Bombay 2.
Scientific Instrument Co., Ltd.—Navsari Building, 240, Dr. Dadabhoy Naoroji Road (Hornby Road), Fort, Bombay.

"PHOTOSTAT" PRINTS AND MICROFILMING

PHOTO-MASTERS.—23, Hamam Street, Bombay 1. Grams: "FOTOMASTER." Phone: 251381. Commercial, Industrial Photography, 'Photostat' Copies, Microfilming, Film Strips, Advertising & Documentary Films.

PHYSICS & BIOLOGICAL INSTRUMENTS

CENTRAL SCIENTIFIC SYNDICATE.—475, Chira Bazar, Bombay 2. Grams: "MAXSERVE." Phone: 316867. Dealers in Scientific and Laboratory requirements, suppliers of Chemistry, Physics and Biology Instruments.

INDSALES CORPORATION.—11, Horniman Circle, Bombay 1. Phone: 257864. Grams: "ANALYTICAL."

PICTURE DEALERS AND FRAME MAKERS

PUNDOLE ART GALLERY.—369/371, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Phone: 298473. Agents for Chemould Picture Frames. Stockists for Paintings & Prints.

PIECE-GOODS (COTTON, SILK & WOOLLEN)

CHANDARANA BROTHERS.—Bombay Office: Jaihind Estate Building No. 3C, 2nd Floor, Bhuleshwar, Bombay 2; Head Office: Post Box No. 50; Nellikai Road, Mangalore 1. Wholesale & Retail Piece Goods Merchants.

PINE OIL

PRABHAT GENERAL AGENCIES.—195, Kalbadevi Road, Bombay-2. Phones: 310359 (3 lines). Grams: "EXPANSION."

PIPES AND FITTINGS MERCHANTS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 326980. Grams: "ALERTDEAL."
Abdullhusein Esoofaly Contractor.—93, Bapu Khote Street, Bombay 3.
Abdullahbai Faizullahbai Ltd.—62, Sarang Street, Bombay 3.
Adamji Lookmanji & Co.—Rahimtoola House, Homji Street, Fort.
ADVANCE TUBE CO.—99, Nagdevi Street, Bombay 3. Phone: 323522. Grams: "ELBOWS."
A. C. KARIMJI CALCUTTAWALA.—Pipes Fittings and Sanitarywares, 82/84, Gulalwadi, Kika Street, Bombay 4. Phone: 333626. Grams: "SANITARY."
A. Vallabhadas & Sons.—37, Nagdevi Street, Bombay 3.
Asian Industrial Corporation.—53, Bhajipala Lane, Bombay 3.
Asian Pipes & Hardware Co.—30, Nagdevi Street, Bombay 3.
ASGARALI NURUDDIN & CO. (Estd. 1916).—95, Nagdevi Street, Bombay 3. Phone: 322609, Res.: 532753. Sanitarywares, Hardware & Pipe Fittings Merchants.
Badruddin Hasanali & Co.—43, Gulalwadi, Kika Street, Bombay 4.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Bhathena & Co., B.N.—100, Nagdevi Street, Bombay 3.
Bombay Burma Hardware Store.—128, Nagdevi Street, Bombay 3.
Bombay Tube and Hardware Mart.—7-C, Musafirkhana Road, Bombay 1.
Brady W. H., & Co., Ltd.—12, Nariman Road, Fort, Bombay 1.
C. Champaklal & Co.—205, Nagdevi Street, Bombay 3.
Calcutta Iron & Steel Co. Ltd.—68/D, Mohamedali Road, Bombay 3.
Central Tool & Equipment Co.—32, Sarang Street, Bombay 3.
Chhabildas & Co.—78-A, Abdul Rehman Street.
Crescent Trading Co.—48-50, Bhajipala Street, Bombay 3.
C. R. Contractor & Co.—82, Nagdevi Cross Lane, Bombay 3.
Daulatram Ratanji & Company.—208, Nagdevi Street, Bombay No. 3.
Dewanchand Hansraj.—105, Narayan Dhuru Street, Bombay 3.
ECHJAY INDUSTRIES PRIVATE LTD.—Office and Factory: Kanjur Village Road, Bhandup, Bombay-78. Phones: 581211 & 581212. Grams: "ECHJAY," Bhandup. Manufacturers of Accessories & Equipments for Machine Tools, General Steel Drop & Upset for Rings—including Forged Flanges; Forged Parts of Diesel Engines & Automobiles; Forged Hand Tools, Hand Hammers, Chisels, & Punches, Spanners, Pliers, Jigs & Fixtures, Press Tools, Dies & Punches.
Esufally Adamji & Co.—134, Nagdevi Street, Bombay 3.
Evergreen Corporation.—Lohar Chawl, R. Champsai Path, Bombay 2.
Fidhusein Hasanali.—46, Gulalwadi, Kika Street, Bombay 4.
Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
Garlick & Co. Private Ltd.—Haines Road, Jacob Circle, Bombay 11.
GENERAL TUBES PRIVATE LTD.—142/44, Nagdevi Street, Bombay-3. Phones: 322894 & 328390. Grams: "GENTUBES." Stockists, Manufacturers, Importers & Exporters. Cast Iron Pipes & Specials, Sluice Valves, Steam Valves, Water Meters & G.I. & M.S. Pipes & Steam Fittings & Stainless Steel Pipes, Valves & Fittings.
Gokaldas Shival & Co.—76, Kika Street, Bombay 4.
Hatimbhoy Goolamhusein & Bros.—(Estd. 1894), 193-A, Nagdevi Street, Bombay 3.
Heptoola Noorudin & Co.—152, Nagdevi Street, Bombay 3.
Hindustan Tools & Engineering Co.—P.O. Box No. 2311, Picket Cross Lane, Bombay 2.
Hiralal Gokaldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.
Industrial Trading Agencies.—248, Meheralli Road, Bombay 3.

ISHARDAS AGARWAL & SONS.—Latif House, Lokhand Jatha, Bombay 9. For your Industrial and Domestic requirements in M.S. Tubes and Seamless Tubes in all Sizes at reasonable rates from ready stocks. Grams: "KARCHITE." Phone: 321768.

Jai Bharat Steel Syndicate.—Iron Jetha, Carnac Bunder, Bombay 9.
Jayantilal & Brothers.—38, Bibijan Street, Nagdevi, Bombay 3.

JAYANTILAL GOKALDAS & SONS

232, Masjid Bunder Road, Bombay-3.

Phones: Office : 325495. Resi. : 475477.

Stockists of Galvanised Pipes & Fittings, Cast Iron Rainwater & Soil Pipes & Fittings, Cast Iron Spigot & Socket Pipes Special Fittings, Brass BIB Cocks and Stop cocks, Sanitarywares and Sanitary Fittings, Gunmetal wheel valves and Gate Valves, Lead Pipes and Lead Traps, Stoneware Pipes & Fittings, Cast Iron Manhole Covers & Gratings.

J. Champaklal & Co.—44, Nagdevi Cross Lane, Bombay 3.

Jivraj & Vrajilal.—122, Nagdevi Street, Bombay 3.

K. Chimanlal & Co.—107-A, Nagdevi Street, Bombay 3.

Kashimira Ceramic Products Private Limited.—Miza Village, Bombay 92.

Machine Tools & Implements.—93, N. Dhuru Street, Bombay 3.

Mahendra Tube & Hardware Mart.—39, Nagdevi X Lane, Bombay 3.

Mangaldas Ranchhoddas & Co.—Iron Market, Carna Bunder, Bombay 9. Phone : 29884.

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone : 324645. Grams : "REDJOINT."

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone Nos.: 323023 & 327058. Grams: "TENDERERS."

NANALAL AMBALAL & CO. (ESTD. 1917).—69, Nagdevi Street, Bombay 3. Phone : 322754. Grams : "VILVALHIRO." One of the leading Wholesalers of Galvanised Iron, Cast Iron & Asbestos Cement Pipes & Fittings and Sanitaryware. Sole Regional Distributors for (1) Parry's Superfine Vitreous Sanitaryware and (2) Stoneware, Pipes Manufactured by the Perfect Pottery Co., Ratlam & Jabalpur.

Necet Trading Corporation Private Ltd.—94, Nagdevi Street, Bombay 3.

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

Noble Tube Co.—141, Nagdevi Street, Bombay 3.

Pankaj Trading Corpn.—25, Bibijan Street, Bombay-3.

Panalal Mohanlal & Co.—89, Nagdevi Street, Bombay 3.

PATEL BROTHERS & CO.—41 Nagdevi Cross Lane, Bombay 3. Phone : 321606. Grams : "HASTY". Importers of Copper, Brass, Galvanised & black steam pipe fittings & Gunmetal fittings & Valves.

R. OCHHAVLAL & CO.—86, Nagdevi Street, Bombay-3. Phone: Office : 321114. Resi. : 351654. Grams : "VALVES". Stockists: I.T.C. make Galvanised & Black Pipes to 1239.1958, Boiler Tubes BSS 3054, Seamless Tubes, Fittings, Screwed & Butt Welded, Brass Seated Unions.

RAMESHCHANDRA SANTRAM

205, Sant Tukaram Road, Carnac Bunder, Bombay-9.

Telephone : 322214.

For :

Carbon steel seamless pipes and tubes from 15 mm to 300 mm diameter for PRESSURE, transportation of liquids and chemicals, and machining etc.

RAMCHAND MATHRADAS AGGARWAL.—30, Khokha Bazar, Sarang Street, Bombay 3. Phones : 326075 & 328942. Grams: "PIPEDIE." Hardware, Tools, Fittings, Pipes, Compressors, Machinery, Implements Iron & Steel, etc.

R. Molchand & Co.—44, Nagdevi Cross Lane, Bombay 3.

R. Babulal & Co.—Kailasnagar, Opp. Bhatia Hospital, Bombay 7.

Shah Patel & Co.—111, Nagdevi Street, Bombay 3.

Sharman Sons.—10, Nagdevi Street, Bombay 3.

Standard Pipes & Fittings Co.—93-A, Nagdevi Street, Bombay 3.

Steel Industries of Hindustan Ltd.—Magazine Street, Darukhana, Bombay 10.

Talib & Co.—Talib House, 104, Nagdevi Street, Bombay 3.

Vasant Engg. & Trading Corporation.—57, Bibijan Street, Bombay 3 BR.

Venus Trading Co.—122, Barbhaj Moholla, Narayan Dhuru Street, Bombay 3.

Victoria Sanitary Stores.—15, Old Court House Road, Bombay 1.

Vinubhai Chandulal & Co.—63, Nagdevi Street, Bombay 3.

Western India Tube Syndicate.—Carnac Biding Road, Bombay-9.

ZENITH STEEL PIPES LIMITED.—Regd. Office: Moti Mahal, 195, Churchgate Reclamation, Bombay-20 BR. Manufacturers of ERW Black and Galvanised Steel Pipes in the Size 1'2" to 3' in Light, Medium & Heavy Class in accordance with IS 1239/1964; also of Oval, Square and Rectangular Pipes & Chipper Knives.

PISTONS, RINGS & LINERS

AGRA ENGINEERING CO.—40, Bank Street, Fort, Bombay 1. Phone: Office: 256541. Res.: 532906. Grams: "RAJSPARES." Manufacturers of Diesel & Automobile Spare Parts, "ARROW" & "DISPA" Liners & Pistons for Diesel Engines, "MG" Pistons for Cars, Trucks, Commercial Vehicles, Motor Cycles, Scooters & Tractors.

PLASTIC & LEATHER GOODS MFRS.



ZEPHYR LEATHER WORKS

Mfrs. Plastic Office Files & other Presentation Novelty Plastic & Leather. 1st Floor, Sethna Bldg., Kitchen Garden Lane, Near Crawford Market, Bombay-2.

Phone : 313803. Factory : 373689.
Grams : "LOOSELEAF".

PLASTIC DECORATIVE LAMINATED SHEETS

FAKHRUDDIN & CO.—43, Abdul Rehman Street, P.B. No. 3066, Bombay-3. Phone : 325837. Grams : "WOODPLY". Stockists of Okal Boa d, Plastic Laminated Sheets, Insulating Boards, Asbestos Electrical Insulating for Arc and Heat Resisting Sheets, Tempered 1 Press Boards, Plywood Black Boards, Asbestos Cement Sheets, Veneer, Decorative Teak Plywood, Expanded Metals, Perforated Metal Sheets, Welded Wire Mesh.

GITA & COMPANY

Stockists :

SUNGLOSS Decorative Sheets, SUNLAM Phenolic Laminated Sheets, P.V.C. Regid Sheets, Acrylic Sheets, Polythene Sheets, Gasket Material.

Address : 205, Masjid Bunder Road, Bombay-3 (BR).

Grams : "SURFACE". Phone : 321966.

PLASTIC MACHINERY MFRS.

Boolani Engineering Corporation.—Prabhadevi Industrial Estate, 402, Veer Savarkar Road, Bombay-25. Phone : 452825. Machinery for Plastics Industry :—"BEC" Thermoplastic Extruders and Extrusion equipments for the manufacture of: Polythene layflat tubings (bags and sheets), Polythene & P.V.C. Pipes, Wire & Cable coatings, Monofilaments & High Density Cane, Flexible Tubings and Sleeveings, Plastic Profiles and Pellets, Scrap Grinders for

granulating any type of Plastic scrap: Pelletizers for cutting pellets of any thermoplastic material; Hand-operated Injection Moulding machines for small component mouldings; Hand operated Blow Moulding machines for blown hollow wares; Hand operated Stamping (Embossing) Machines for marking plastic surfaces. Also Extrusion Dies to customer's specifications.

BRIMCO PLASTIC MACHINERY CORPORATION.—Plot No. 55, Govt. Industrial Estate, Kandivli (West), Bombay-67. Phone: 692818. Grams: "BRIMSEAL", Bombay, Kandivli. Machinery and Equipments for Processing Plastics, Brimco Thermo-plastic Extruders and Equipments for Extrusion of Tubular Film (Layflat Tubes), Rods, Strips, Sections, Plastic Cane, Monofilament, and Covering Wires and Cables, etc. From Polyethylene, Polystyrene, PVC, Cellulose Acetate, High Density Polyethylene, Polypropylene, etc. Also Injection Moulding Machines, Granulators, Palletizing, Colouring, Reprocessing Equipments and Automatic Bag Making Machines, blow moulding machines, lamination plant and plant for manufacturing oriented plastic lace. Sole Selling Agents for Whole of India: William Jacks & Company (India) Pvt. Ltd.

Radio Electrical Corporation.—Mamlatdar Wadi Road, Malad (West), Bombay-64.

Universal Mechanical Works Private Ltd.—Opp. Worli B. D. D. Chawl No. 112, Bombay 13.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Fort, Bombay 1.

PLASTIC MOULD MANUFACTURERS

BLOW PLAST PRIVATE LTD.—Bombay Agra Road, Bhandup, Bombay 78. Phone: 581252. Grams: "BLOWPLAST." Specialists in Injection Moulding, Blow Moulding, Mould Making. Manufacturers of Polythene containers for chemicals, acids etc. and P.V.C. self adhesive insulation tapes.

MUTUAL STEEL INDUSTRIES.—47, Kandivli Industrial Estate, Kandivli, Bombay 67 N.B. Phone: 692264/65. Plastic Moulding in compression and injection. Manufacturers of Bakelite & Plastic Radio Cabinets, and "TIDY HOME" Plastic Housewares.

PLASTIC (RAW MATERIAL)

KAKUBHAI GOVINDJI.—384-K, Kalbadevi Road, Dabholkar Wadi, Bombay-2. Agents for Bakelite Xylonite Ltd. and Bexford Ltd. of U.K. Also dealers in all types of Plastic Materials. Gram: "PLEXI." Bombay-2. Phone: 312761 & 318223.

PLASTIC SHEETINGS

BHOR INDUSTRIES PVT. LTD.—Sales Division, 392, Veer Savarkar Marg, Bombay-25. Phones: 451418, 456221, 456222. Grams: "COVERCLOTH." Manufacturers of "RAJA" Brand Plastic Cloth, "FEATHER TOUCH" Foam Leather & "NATRAJ" Brand Plastic Films & Sheetings. VYNATILE Flooring Material & STEELGRIP PYC Electrical Insulation Tape.

Bombay Leather Goods Depot.—14, Shamset Street (Chippi Chawl), Bombay 2.

PLASTIC TUBINGS

AMRATLAL JHHAGANLAL & CO.—143, Nagdevi Street, Bombay 3. Phone: 326008. Grams: "EKADASHI." Dealing in Suction, Delivery, & Fire Hoses; Surgical, Rubber & Plastic Tubings & Sheetings.

Mahavir Mill Stores.—168, Nagdevi Street, Bombay 3.
William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay 1.

PLASTIC WELDING TORCHES, MACHINES & MATERIALS

VISHWA BHARATI TRADING CO.—45, Mint Road, Post Box No. 1052, Bombay 1. Phone: 266371 (All Depts.). Grams: "VIDHACO." Branch: G.P.O. Box 2628, Calcutta 1. Phone: 336680. Manufacturers of Plastic Welding Machines, Plastic Spraying Machines & Torches, Adhesive.

PLASTICS MFRS.

Acme Plastics Industries.—12-B, Chandivali Farm, Chandivali Road, Bombay 72 AS.

Amar Plastic Industries.—43, Queen's Road, Bombay-2. Manufacturers of Cinema Screens, Plastic Lace Mats, PVC Battery Separators, Tea Trolleys, Decorative PVC Tiles, Badges and Ear Defenders. Phone: 314326. Grams: "RUMI EE."

Arthangles Private Limited.—204, Dr. Dadabhai Naoroji Road, Bombay 1.

Associated Agencies (Bombay).—47, Podar Chambers, S. A. Brelvi Road, Bombay 1.

BAKELITE (INDIA) PRIVATE LTD.—Tiecicon, 18, Dr. E. Moses Road, Bombay-11 : Phones: 372172 (3 lines) Telex: 2459 ; Godown: Kores India Building, Musakiledar Street, Bombay-11 ; Sole Selling Agents for Hylam Limited, Secunderabad ; Manufacturers of HYLAM Laminated Sheets & Tubes ; DECOLAM Decorative Laminated Sheets, HYLAK Polyester Resins, Moulding Materials and Phenolic Resins, Associates of BXL Plastics Materials Group Ltd., London ; Manufacturers of BAKELITE Laminated Sheets, rods and tubes ; WARERITE—Decorative Laminated Sheets and VYBAK PVC Compounds ; Agents for Rohm & Haas ; Manufacturers of PLEXIGLAS Acrylic Sheets, Rods and Tubes ; PLEXIGUM Moulding Powder. Branches at : 3, Explanade East, Calcutta-1. Phone: 237600. Telex: 504 ; 1, Tolstoy Lane, New Delhi-1 ; Phone: 44814, 44081. Telex: 517.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay 1.

BILLION PLASTICS PRIVATE LIMITED.—101, Himalaya House, Palton Road, Bombay-1. BR. Items manufactured: Billion Brand P.V.C. Transparent and Opaque Tubing, Sleeving, Pipes, Enema & Stethoscope Tubing, Threads, Cords, Strips, Extrusion of shapes and sections in plastics. Phone: 265523. Grams: "BILLION".

Blow Plast Private Ltd.—Blow Plast, Shastri Marg, Bombay 78.
Bombay Agency.—5, Ramnam Mansion, Behind Metro Cinema, Dhobi Talao, Bombay 20.

BOMBAY PLASTIC CORPORATION.—Elphinstone Building, 10, Veer Nariman Road, Bombay 1. Phone: 252527. Grams: "BESIEGER." Manufacturers of Plastic Advertising & Complimentary Articles.

BRIGHT BROTHERS PRIVATE LTD.—156-A, Tardeo Road, Bombay 34 ; Grams: "BRIBOS." Phone: 375342 (4 lines) ; Manufacturers of Plastic Articles for Home, Industry, Office and Gift Advertising.

CAPRIHANS (INDIA) PRIVATE LTD.—Block-D, Shiv Sagar Estate, Dr. Annie Besant Road, Worli, Bombay-18 (WB) ; Manufacturers of Sungloss Decorative Surfacing, Sunlam Industrial Laminates, Sunvic Rigid PVC Sheets, Sunflex PVC Sheetings, Sunstrene Polystyrene Sheets ; Phone: 372285-86-87 and 378548-49 ; Grams: "CAPRIHANS". Branches: New Delhi, Calcutta and Madras.

EBRAHIM ALLIBHOY & SONS (ESTD. 1934).—Manufacturers & Exporters & Stockists. 260-64, Abdul Rehman Street, Bombay 3. Phone: 325163. Cables: "EALISONS".

GANDHI BROTHERS.—203, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 261345. Manufacturers of Polythene Transparent Coloured Gift Bags, Sheets in any size and gauge.

GARWARE PLASTICS PRIVATE LIMITED.—50-A, Central Salsette Road, Bombay-52. Phone: 575511 (4 lines).

Hardcastle, Waud & Co., P. Ltd.—Alice Building, Dadabhai Naoroji Road, Bombay 1.

Indian Plastics Ltd.—Polar Bridge, Bombay 67.

Industrial Plastic & Engineering Works.—Ruby House, Bombay 16.

Iwacom Private Limited.—204, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.

Jagdhir Desai & Co.—13, Gunbow Street, Fort, Bombay 1.

Koomek Ltd.—Cecil Court, Lansdowne Road, Apollo Bunder, Bombay 1.

Mamaji & Son (Private) Ltd., Y. A., 136, Sir Ebrahim Rahimtoola Road, Bombay 3.

MONSANTO CHEMICALS OF INDIA PRIVATE LTD.—Wakefield House, Sprott Road, Ballard Estate, Bombay 1. Phone: 26-2624. Grams: "MONSANTO." Bombay. Branch Offices: Monsanto Chemicals of India Private Ltd., 19, Rajendranath Mukherjee Road, Calcutta 1. (2) Monsanto Chemicals of India Private Ltd., 3/8, Asaf Ali Road, Near Turkman Gate, New Delhi. (3) Caithness Hall, 3 10/11, Linghi Chetty Street, G.T., Madras.

MUTUAL STEEL INDUSTRIES.—47, Kandivli Industrial Estate, Kandivli (West), Bombay-67. N.B. Phone: 692264-65. Plastic Moulders in Compression and injection. Manufacturers of Bakelite and Plastic Radio Cabinets and "TIDY HOME" Plastic Housewares.

Newpack Industries.—Lotus House, 33A, Marine Lines, Bombay 1.
Norinco Ltd.—India House, Fort, Bombay 1.

Plastic Extrusion Products.—Nathoo Estate, M. Vasanji Road, Bombay 59.

Plastic Extruders Private Ltd.—204, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.

PLUCK & CO. (Estd. 1902).—Office & Works: Block No. 22, 3rd Floor, Frabhaddevi Industrial Estate, Cadel Road, Bombay-28. Grams: "INTERSEAS." Badges, Advertising Gifts like Key Chains, Paper Weights, Paper Cutters, Table Calendars, everything in soft plastics like wallets, Memo Pads, Files, Diaries, etc.

Podar Plastics Private Ltd.—Podar Chambers, S. A. Brelvi Road, Fort, Bombay 1.

Rubako Industries.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1.

RATILAL PAREKH & CO.

Bombay Mutual Bldg., Sir P. M. Road, Bombay-1.
Phones : 262231 ; 582278 (Resi.).

Grams : "GAISAN".

Manufacturers of : Acrylic plastic sheets, Plastic Buttons, Bangles, Fountain pen, Umbrella handles with Silk Cord, Tapes, Tubelight Covers, Imitation Jewellery & Umbrellas.

Supreme Industries Ltd.—Old Laxmi Mills Compound, Wadala, Bombay 31.

Trading Co., L. R.—Navsari Chambers, D. N. Road, Fort, Bombay 1.

United Cottage Industries.—174, Abdul Rehman Street, Bombay 3.

Vijay Bakelite Trading Co.—8, S. Devji Street, Bombay 3.

PLAYING CARD MANUFACTURERS

POPULAR FINE ART LITHO WORKS PRIVATE LTD.—133-C, Vakola, Santacruz East, Bombay 55 AS. Phones : 533234, 533235. Grams : "GOOLNAR."

Sharda Paper Box Mfg. Co.—100, Byculla Station Road, Bombay 11.

THE HINDUSTAN PLAYING CARDS MANUFACTURING CO.—Central Salsette Road, Kalina, Santa-Cruz (East), Bombay-29 AS for Playing Cards to suit all tastes & Pockets. Advertisement Playing Cards printed to customers' full satisfaction. Phone : 534185.

PLYWOOD MANUFACTURERS AND DEALERS

A. A. MORBIWALA & CO.—109/111, Abdul Rehman Street, Bombay-3. Phone : 323280. Grams : "VARNISH" (MD). Suppliers of Plywood, Formica, Hardboard, etc.

Abdoolally Noorbhoy.—252, Abdul Rehman Street, Bombay 8.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay 1.

ESMAIL ESSAK & CO.—87/89, Masjid Street, Kazi Mohalla, Bombay 3. Phone : 323247. Resi. : 334010. Timber Merchants, General Contractors and Suppliers of Plywood & Hardboard.

FAKHRUDDIN & CO.—43, Abdul Rehman Street, Post Box No. 3066, Bombay 3. Phones : 325837 and 322725. Grams : "WOODPLY." Stockists of Okal Board, Plastic Laminated Sheets, Insulating Boards, "Anchor" Novateak, Asbestos Electrical Insulating for Arc and heat-resisting sheets, tempered press boards, Plywood block boards, Asbestos Cement Sheets, Veneer, decorative teak plywood, Expanded Metals, perforated Metal Sheets, Welded Wire Mesh.

FAMOUS PLY-N-BOARD

228, Bazar Gate Street, Fort,
Bombay-1 BR.

Authorised Stockists of Commercial & Decorative Plywoods, Blockboards, Okal Boards, Flush Doors, Cement Sheets, "Formica" Sheets, Thermocole Slabs, Fevicol, Mowicol and Dunlop Adhesives.

Phone : 263979.

Getz Bros. & Co. Inc.—Western India House, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Hindustan Plywood & Metal Depot.—301, Yusuf Meherally Road, Bombay 3.

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road, Bombay 1.

Karimji Ebrahimji Arsiwala.—118, Abdul Rehman Street, Bombay 3.

Kerbadji Bejanji & Sons.—Opp. Silk Mill, 51/A, Victoria Road, Bombay 10.

Keshowdas Hassanand Karachiwala.—Yusuf Meherally Road, Bombay 3.

Mehta & Co.—35, Abdul Rehman Street, Pydhonie, Bombay 3.

Mahomedally Valiji Arsiwala.—76, Abdul Rehman Street, Bombay 3.

Mody & Co., R. E.—Reay Road, Tank Bunder, Bombay 10.

NASH & CO.—103, Abdul Rehman Street, Bombay 3. Phone : 324968. Commercial & Decorative Plywood, Block-Boards, Okal Boards, Particle Boards, Flush Doors & Formica Sheets.

Plynet Traders.—Shahru Castle, Mohamedali Road, Bibijan Street, Bombay 3.

Premier Glass Traders.—78, Dhanji Street, Bombay 3.

Shah & Co., Jaliwala.—36, Abdul Rehman Street, Bombay 3.

Tek Trading Corporation.—139A, Abdul Rehman Street, Bombay 3.

Yusufali Goolamhoosen Arsiwala.—105, Abdul Rehman Street, Bombay 3.

PNEUMATIC TOOLS

CONSOLIDATED PNEUMATIC TOOL CO. (INDIA), LTD.—(Incorporated) in India. 301/302, Agra Road, Mulund, Bombay 80. Phone : 592274/6. Grams : "PNEUMATIC" Mulund, Bombay. Manufacturers of Air Compressors, Pneumatic Riveting and Chipping Hammers, Drills, Grinders, Impact Wrenches, Rock Drills, Feed Legs, Sump Pumps, Sludge Pumps, Jacks etc.

POLYTHENE BAGS & SHEETS

EVERGREEN PLASTIC CORPORATION.—7, Naviwadi, Dadyseth Agiary Lane, Bombay-2. Manufacturers of Polythene lay flat tubings, sheetings, Bags, lines, etc. Phones : 316507, 311481.

POLYTHENE

Polythene Tubing — Bags — Heavy Gauge
Liners upto 60" width. Polythene Film in Rolls.

Also undertake supply of P.V.C. Sheets and Heat Sealer Machine for Welding Polythene Bags as per specification and requirements.

(Literature with illustration supplied on request.)

Manufacturers :

GUJARAT POLYTHENE INDUSTRIES

86, Sutar Chawl, Ghia Mansion, Bombay-2.

Grams : "ALKATHENE".

Phones : 325820 & 329321

NATIONAL PAPER BAG CO.—168, Bhimpura, Chinch Bunder, Bombay 9. Phone : 333239. Grams : "PAPERBAG." Manufacturers of Paper Bags, Plastic Bags, Carrier Bags, etc.

NEW PACK INDUSTRIES.—Lotus House, 33-A, New Marine Lines, Bombay-20. Phone : 291731. Grams : "NUPACK." Manufacturers of "NEWPACK" Polythene Bags, Sheetings & Rolls, Etc.

Polymer Corporation.—70, Kalbadevi Road, Bombay 2.

TRIBHOVAN NEMCHAND & CO.—51, Bazargate Street, Fort, Bombay 1. Estd. 1911. Phone : 262261. Grams : "HONEY-MOON."

POLYETHYLENE MFRS

POLYOLEFINS INDUSTRIES LIMITED.—Registered Office : Neville House, Currimbhoy Road, Ballard Estate, Bombay-1. Phone : 262570. Grams : "PILENE". Manufacturers of High Density Polyethylene, Processed Polyethylene Products, Aluminium Organic Compounds.

PRECISION TOOLS & INSTRUMENTS

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams : "UNIONTOOLS." Phone : 323193. Stockists of Elephant Brand Chain Pulley Blocks.

BOMBAY TOOLS & HARDWARE MART.—123, Narayan Dhuru Street, Bombay-3. Grams : "BOTAPS". Phone : 327122.

BOMBAY TOOLS SUPPLYING AGENCY.—50, Nagdevi Cross Lane, Bombay 3. Phone : 321326. Grams : "TERRATOOLS". Direct Importers—Stockists of Machine Shop Tools & Precision Measuring Instruments.

EMKAY TRADERS.—32, Fatima Bldg., 7, Nagdevi Street, Bombay 3. Carbon, High Speed, Taps, Dies, Chasers & other Threading Tools, Twist Drills, Garage & Small Tools, Precision & Measuring Tools. Stockists : S.T.M. Tools, & all makes of Ball, Roller & Taper Bearings. Phone : 328578. Grams : "MONDHRUV."

HEMANT TOOLS TRADING CO.—33, Bibijan Street (Barbhaj Mohalla), Bombay 3. Grams : "LACING." Phone : 321174. Stockists of Quick change chucks & Collets. "SCEKO" Brand Revolving Centres.

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Jhaveri Bros. & Co. Pvt. Ltd.—345, Abdul Rehman Street, Near Crawford Market, Bombay 3 (BR).

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Lund & Blockley Ltd.—150, Mahatma Gandhi Road, Fort, Bombay 1.

Narotamdas Bhau.—Bhaskar Mansion, Bhadkamkar Road, Bombay 4.

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Alliance Art Printing Works.—17, Benham Hall Lane, Bombay 4.
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Government Central Press.—Charni Road Garden, Bombay 4.
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Jam-e-Jamshed Printing Press.—Ballard House, Mangalore Street, Fort, Bombay 1.

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New Era Engineering Co.—128, N. Master Road, Bombay 1.

New Standard Engineering Co. Ltd.—N. S. E. Estate, Goregaon (E), Bombay 63.

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British Radio & Electric Co.—Prospect Chambers, D. N. Road, Fort, Bombay 1.

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Cinefones.—Opp. Opera House, 3, New Queen's Road, Bombay 4.

Eastern Electric & Engineering Co., Pvt. Ltd.—127, Mahatma Gandhi Road, Bombay 1.

ELECTRONIC RADIO & SOUND CORPORATION.—394-B, Lamington Road, Lamington Chambers, Bombay 4. Phone: 72056. Grams: "TRANSOCEAN." Electronic Components for Trade, Industry, Education & Research.

EXPRESS ELECTRONICS.—78, Abdul Rehman Street, Bombay 3. Authorised Dealers: "PHILIPS" Radios, Sales & Service. Phone: 325938. Grams: "PRIME-WATCH".

General Radio & Appliances Private Ltd.—Unity House, M. Paramanand Marg, Bombay 4.

Gramophone Co., Ltd.—Universal Insurance Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
 Imanes Private Limited. 94, S. V. Road, P. O. Box 8002, Bombay 56 AS. Phone: 571634. Grams: "IMANESCOL", Springs and Forms out of Spring Wires and Strips for your Industry.
 Lakhanpal Private Ltd.—29, M. Paramanand Marg, Bombay 4.
 Lalwani Radio Corporation.—11, Tribhuvan Road, Bombay 4.
LAXMIDAS & DWARKADAS (Estd. 1914).—466, Sardar V. P. Road, Bombay 4; Phone: 357392; Grams: "THYMOL." Makers of "OMEGA" Electronic Products.
METRO MUSICS.—545, Kalbadevi Road, Bombay 2. Phone: 313775. Grams: "METMUSICS." Sole Distributors for METZ (German) Radios and "TRIOTRON" Valves & Radio parts.
 Modern Electric Corporation.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1.
 Motwane (Private) Ltd.—127, Mahatma Gandhi Road, Fort, Bombay 1.
 Murphy India Ltd.—Dr. Shirodkar Road, off Hospital Avenue, Parel, Bombay 12.
 National EKO Radio & Engineering Co. Ltd.—Ewart House, Bruce Street, Fort, Bombay 1. Phone: 257741. Grams: "EN-NAREE."
 Precious Electric Co.—Yusuf Building, Veer Nariman Road, Bombay 20.
 Radiocrafters, The.—27-C, D. Karve Road, Bombay 4.

REMEX CORPORATION

50/7, Tardeo Air-Conditioned Market,
 Tardeo, Bombay-34.

Authorised Dealers for PHILIPS Radios, Stereophonic Equipment, Radiograms, etc. Specialists in Repairs & Servicing.

Grams: "CRUCIGRAH". Phone: 374761.

Rhythm House Private Ltd.—40, Rampart Row, Bombay 1.
 Star Radio Service.—Bhivandivala House, Gowalia Tank, Bombay 26.
 Surendra Trading Corporation.—159-2, Khetwadi Back Road, Bombay 4.
TELEFLUTE RADIO AGENCY.—Homji Street, off Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 316823.
 United Engineering Corporation.—5, M. P. Marg, Bombay 4.
 Universal Radio Co.—6, Rancee Building, Prarthana Samaj, Bombay 4.

WACO RADIO ELECTRONIC INDUSTRIES.—Office: Sukh-Sagar Building, Hughes Road, Bombay 7. Phone: 352951. Showroom 421, Lamington Road, Bombay 7. Phone: 352580. Factory: Ulhasnagar, 4. Opp.: Vithalwadi, C. Rly. St., Maharashtra State. Mfrs. of Sanyo Transistor Radios, Waco Radios, Amplifiers, Intercom equipments, Hi-Fi Amplifiers, Ampligrams, Radiograms, Transformers, Chokes, Ballasts for Fluorescent & HPMV Lamps and Wooden Radio Cabinets.

WESTERN AGENCIES CO.—Sukh-Sagar Building, Hughes Road, Bombay 7. Phone: 352951. Grams: "WESTCOY." Showroom: 421, Lamington Road, Bombay 7. Phone: 352580. Engineers, Importers of Radio Components, P. A. Equipment, Electric Appliances, Telecommunication Equipments, Electronic Components, Electronic and Communication Equipment & Instruments. "WACO" Radios, Amplifiers, Intercoms, Transformers, Chokes.

RADIO AND COMPONENT PARTS MANUFACTURERS

BRIGHT BROTHERS PRIVATE LTD.—156/A, Tardeo Road, Bombay 34. Grams: "BRIBOS." Phone: 375342 (4 lines). Manufacturers of Radio Grilles, Knobs, Transistor Sets, PVC Sleeveings, etc., etc., in Plastics against customer specification.

Dominion Radios.—15, New Queen's Road, Bombay 4. Phone: 352298. Grams: "DOMIRA." Importers and Distributors of all makes of Radio and Electronics Components—Instruments, Equipments.

Mulchandani Electrical & Radio Industries Ltd.—Sukh-Sagar, Sandhurst Bridge, Hughes Road, Bombay 7.
 Murphy India Ltd.—Dr. Shirodkar Road, Parel, Bombay 12.

MUTUAL STEEL INDUSTRIES.—47, Kandivli Industrial Estate, Kandivli (West), Bombay-67 N.B. Phone: 692264/65. Plastic Moulders in Compression and manufacturers of Bakelite and Plastic Radio Cabinets and "TIDY HOME" Plastic Housewares.

TELECOM INDUSTRIES PRIVATE LTD.—61, Dr. S. S. Rao Road, Parel, Bombay-12. Phone: 440081/440082. Manufacturers of Wooden Radio Cabinets, Radio Dials, Printed Circuits, Decorative Wood Veneers, Decorative Plywood,

Furniture and RF Dielectric & Induction Heating Equipments for Plywood, Furniture & General Engineering Industries.

Telerad Private Ltd.—Atlas Mills Compound, Reay Road, Bombay 10.

TODI & CO.—Tulsipipe Road, Lower Parel, Bombay-13. Phone: 374568. Grams: "OFFER". Manufacturers of "Dawn" Nylon Radio Dial Cord.

RAILWAY SPRING MFRS.

IMANES PRIVATE LIMITED.—94, S. V. Road, Erla, P.O. Box 8002, Bombay 56 AS. Phone: 571634. Grams: "IMANESCOL". Springs & Forms out of Spring wires and strips for your Industry.

RAYON (RAW MATERIALS)

Batliboi & Company Private Limited. Regd. Office: Forbes Street, P. Box 190A, Fort, Bombay-1 (BR.). Phones: 259611 (6 lines). Grams: "BATLIBOICO." Tele: 011-2284. City Branch: "BATLIBOI HOUSE", 59/61, Nagdevi Cross Lane, Bombay-3 (BR). Branches: Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, Indore, Jaipur, Kanpur, Ludhiana, Madras, New Delhi, Patna, Secunderabad, Vijayawada. Associate: Bangalore 2. Resident Representatives: Bhopal, Bhubaneswar, Raipur, Rajkot.

RAYON INDUSTRIES

PLAS-FAB PRIVATE LIMITED.—Advent, 7th Floor, 12A, General J. Bhosle Road, Bombay-1. Phone: 214258. Grams: "FILTERFAB." Leading Suppliers of all types of Woven and Non-woven Filter Cloth and industrial Machine Clothing.

RAYON MACHINERY (PARTS) SUPPLIERS

INDIA RUBBER PRODUCTS.—Kasturichand Mills Estate, Dadar, Bombay-28. Phone: 454072. Manufacturers of Industrial & Moulded Rubber Products. Such as Rubber Bushes, Rings etc. to Drawing and Specifications.

RAYON YARN MANUFACTURERS

BARODA RAYON CORPORATION LTD.—Manufacturers of Rayon yarn, Sulphuric Acid, Anhydrous Sodium Sulphate & Carbon-Di-Sulphide. Address: Great Western Bldg., 1st Floor, 130/132, Apollo Street, Bombay-1. Telephone: 255881. Telegram: "RAINBOW". Regd. Office: Udhna, Surat. Telegram: "RAINBOW". Managing Agents: Gaekwad Chinal & Co. Pvt. Ltd.

NATIONAL RAYON CORPORATION LTD., THE.—Sales Office: Ewart House, Bruce Street, Fort, Bombay-1. Phone: 290808 (six lines). Grams: "NARACORP", Bombay.

READYMADE CLOTHES MFRS.

INDUSTRIAL CLOTHING CO.—Manufacturers of Uniforms for Industrial Workers, Peons, Drivers, Watchmen, etc. 79, Medows Street, Shroff Building (2nd Floor), Fort, Bombay-1. Phone: 315235 (Factory).

RECTIFIERS

HIND RECTIFIERS LTD.—Lake Road, Bhandup, Bombay 78. Grams: "HIRECT," Bombay 78. Licensees of Westinghouse Brake & Signal Co., Ltd., London, for Manufacture of Rectifiers, Battery Chargers, Electroplating Sets, Silicon Power Plants. Selling Agents: Kaycee Industries Ltd., Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1. Phones: 263521-22-23. Grams: "TURNRITE."

REFRATORIES

ALEXANDER & RAYMOND (BOMBAY).—Manufacturers of Refractory Materials, Sitaram Building, "G", Phalton Road, Bombay-1. Phone: Office: 262150 & Res.: 573040. Grams: "REFRATORY".

INDIAN MINERAL SUPPLY CO.—Sir P. M. Road, Bombay-1. Agents Maharashtra: Bird & Co. Pvt. Ltd. and Saurashtra Ceramic Industries. Fire Bricks, Tiles, Silimanite & G. T. Blocks, Silica Bricks etc. Phones: Office 253572. Res. 476280; Godown 372356.

P. B. SHAH & CO.—58, Lohar Chawl, Bombay-2. Mfrs. & Suppliers of Finest Quality High Temperature Fire & Air Setting Cements, Castables, Furnace Lining Materials. Always in Stock Silimanite, Kynite, Fire Clay, etc. Phones: 311447, 471110 (Res.)

REFRIGERATORS (DOMESTIC)

Blue Star Ltd.—Kasturi Building, J. Tata Road, Bombay 1.
 Bombay Gas Co., Ltd.—214, Dadabhoy Naoroji Road, Fort, Bombay 1.

BOMBAY REFRIGERATOR INDUSTRIES LTD.—Manufacturers of Domestic Refrigerators, 119, Bhawani Shanker Road, Dadar, Bombay 28. Phone: 451912.

Eastern Radio and Refrigeration Co.—8, Beaumon Chambers, N. Master Road, Bombay 1.
Economic Electric Co. P. Ltd.—Jail Road (East), Dongri, Bombay 9.
Freezall.—Kisan Mahal, Tribhuvan Road, Bombay 4.
Gramophone Co., Ltd.—Universal Fire & General Insurance Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Radiocrafters, The.—21-C, D. Karve Road, Bombay 4.
Refrigeration & Appliances Co. Private Ltd.—Pravin Court, 95, Queen's Road, Bombay.
Rhythm House Ltd.—40, Rampart Row, Fort, Bombay 1.
SPENCER & CO. LTD.—Spencer's Building, Forjett Street, Bombay 26. Phones: 362861-62-63. Grams: "PORTEDOS." Distributors throughout India for **KELVINATOR** Refrigerators & "BELAIRE" Room Air Conditioners. Sales and Service.
United Engineering Co., The.—Daya Manzil, 27-A, Deorukhkar Road, Bombay 14.

REPRESENTATIVES (MANUFACTURERS)

FORBES FORBES CAMPBELL & CO. LTD.—LATHAM DIVISION.—Forbes Bldg., Home Street, Fort, Bombay. Phone: 268081. Grams: "LATHAM."

RESPIRATORS (DUST PROTECTION) MFRS.

VISHWA BHARATI TRADING CO.—45, Mint Road, Post Box No. 1052, Bombay 1. Phone: 266371 (All Dep'ts.). Grams: "VIBHACO." Branch: G.P.O. Box 2628, Calcutta 1. Phone: 336680. Mfrs. of Industrial Safety Equipments, such as Goggles, Gloves, Dust Masks, Gas Protection Respirators, Helmets, Safety Belts, Aprons, etc.

ROADS & BRIDGES BUILDING CONTRACTORS

SHAH CONSTRUCTION CO. LTD.—198, Jamshedji Tata Road, Bombay 1. Phone: 295044. Grams: "SUPERTRADE." Engineers & Contractors. Specialists in Prestressed Concrete Roads, Dams and Canals, R. C. C. Multistoreyed Buildings.

ROAD BUILDING & CONSTRUCTION MACHINERY

Associated Machine & Tool Co.—130, N. Master Road, Fort, Bombay 1.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay 1.
BATLIBOI & COMPANY PRIVATE LIMITED.—Regd. Office: Forbes Street, P. Box 190A, Fort, Bombay 1 (BR). Phones: 259611 (6 lines). Grams: "BATLIBOICO." Tele: 011-2284. City Branch: "BATLIBOI HOUSE", 59/61, Nagdevi Cross Lane, Bombay 3 (BR). Branches: Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, I core, Jaipur, Kanpur, Ludhiana, Madras, New Delhi, Patna, Secunderabad, Vijayawada. Associate: Bangalore-2. Resident Representatives: Bhopal, Bhubaneswar, Raipur, Rajkot.
Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.
Jacks, William & Co. Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort, Bombay 1.
Killick, Nixon & Co., Ltd.—Home Street, Fort, Bombay 1.
Larsen & Toubro Ltd.—L. & T. House, Dougall Road, Ballard Estate, Fort, Bombay 1.
Lusob Trading Co.—Bell Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Millars' Timber & Trading Co., Ltd.—Victoria House, Victoria Road, Bombay 27.
NATIONAL ASPHALT PRODUCTS & CONSTRUCTION CO.—Hill View, Mahul Road, Bombay 14 AS. Phone: 522815. Dealers in and Hixers of Bulldozers, Air Compressors, Asphalt Mixers, Bowsers & Boilers, Concrete Mixers & Vibrators, etc.

ORIENTAL ENGINEERING CO.—25, Forbes Street, Fort, Bombay 1. Phone: 253057. Grams: "ADIVISHNU." Dealers in New & Second-hand Road Rollers, Stone Crushers, Air-compressors, Ammonia Compressors, etc., Concrete & Pan Mixers and Earthmoving Machinery, Tractors, Cranes.
Voltas Limited.—19, Graham Road, Ballard Estate, Bombay 1.
William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay 1.

ROLLING SHUTTERS MANUFACTURERS

Shaparia Dock & Steel Co., P. Ltd.—Sewri Fort Road, Bombay 15.
Shubhadwar Rolling Shutters & Engineering Co.—15, Bank Street, Fort, Bombay 1.
Standard Rolling Shutters & Engineering Works.—37, A.B. Ambedkar Road, Bombay 12.
Star Rolling Shutters Mfg. Co.—139A, Umar Street, Bombay 4.

Where there's SWASTIK there's Protection



Manufacturers of:

All Steel Rolling Shutters—Vertical Rolling Shutters—Gear & Electrically Operated Rolling Shutters—Airy Ventilated Rolling Grills—Collapsible Gates—New Type of Shutter Gates, Etc.

SWASTIK ROLLING SHUTTERS & ENGINEERING WORKS

Office:—1st floor, Giriraj, Sant Tukaram Road, Bombay-9 Office Phone: 321771

Factory Phone: 692295. Grams: "SWASTIKROL"



Factory:—Ram Mandir Road, Goregaon (West), Bombay-62.

ROPERIES

Adamally Sons P. Ltd.—Maskati Building, Nagdevi Street, Bombay 3.

ADAMJI KADERBHOY.—Post Box No. 5046, 337, Katha Bazar, Bombay 9. Tel. No. 322485. Grams: "RAJKOTWALA." Manufacturers and Stockists of Cordage, Manila Coir, Hemp & Cotton Ropes. Approved Contractors to Govt., Rlys. and Steamship Companies. Exporters of Coir Products. Selling Agents for: The Ganges Rope Co., Ltd., Calcutta.

CHANDULAL & CO., KATHAWALA.—11, Kazi Syed Street, Bombay 9. Grams: "CORDCOIR". Phone: 325598.

GARWARE FILAMENT CORPORATION PRIVATE LTD.—Chowpatty Chambers, Sandhurst Bridge, Bombay 7. Phone: 357711-5.

Gujarat Rope Factory, The.—57, Bhajipala Lane, Bombay 3.

M.M.A. RASIWALLA & CO., (Estd. 1910).—17, Janitkar Street, Huseinbhai Bldg., Mandvi, Bombay 3. Phone: 379166. Grams: "TWIST." Manufacturers of Cotton Ropes, Thread and Twine, and Dealing in Fish Hooks and Hemp Twine, Plastic Fishing Lines and Sail Needles.

OCHHAVALAL CHHOTALLAL & CO.—Stockists of: Manila, Sisal Ropes, Spurn yarn etc. Manufacturers of: Cotton & Jute Ropes, Tubular Bandings, Twines, Strings, Line Dori Jute & Hemp Healed Cord, Webbing Newars, Tapes, etc. Address: 207-209, Nagdevi Street, Bombay-3. Phone: 324944; Office: 359614 (Resi.). Grams: "KACHERIA."

Star Rope Works, The.—87, Sun Mill Road, Lower Parel, Bombay 13.

Talib & Co.—Talib House, 104, Nagdevi Street, Bombay 3.

THANA TEXTILE ROPE WORKS.—"Sun Brand" Pink Ply, Cotton Rope, Spindle Tapes, Bandings & Endless Bands Manufacturers and Merchants. Crescent Chambers, Tamarind Lane, Fort, Bombay 1. T. No.: 257095. Grams: "ROPE DRIVE." Works: Bombay-Agra Road, Thana (C.R.). T. No.: 591889.

Thanawala, B., & Sons, P. Ltd.—47, Tamarind Lane, Fort, Bombay 1.

TODI & CO.—Tulsipipe Road, Lower Parel, Bombay-13. Phone: 374568. Grams: "OFFER." Manufacturers of Driv-ing Cotton Ropes, Cordages, Spindle Tapes, Webbing, Cotton Tape, Braidings and Art Silk Tapes.

ROSIN AND TURPENTINE

BOMBAY ROSIN & TURPENTINE CO.—G.P.O. Box 1512, Bombay 1. Grams: "TURPENTINE". Phone: 379268. Manufacturers, Agents, Suppliers & Exporters of Rosin, Oils, Varnishes, Shellac, Glues, Disinfectants and all Chemicals to Mills & Factories. Agents & Distributors: Haward Rosin Chemicals, Nepal; National Rosin & Turpentine Factory, Punjab. Local Sales Office: Meghji Building Compound, Near Wallace Flour Mill, Mazagaon Road, Bombay 9.

Bombay Rosin Corporation.—181, Samuel Street, Mandvi, Bombay 9.

EMPEE CORPORATION PRIVATE LTD.—44, Cawasji Patel Street, Bombay 1. Selling Agents of "Chir Brand" Rosin and Turpentine I.S.I. Grade. Grams: "ROSTURP." Phone: 257782

Kirtikumar Chandulal & Co.—50, Essaji Street, Bombay 3.

PRABHAT GENERAL AGENCIES.—195, Kalbadevi Road, Bombay 2. Phones: 310359 (3 lines). Grams: "EXPAN-SION."

Universal Traders.—Himalaya House, Phalton Road, Bombay 1.

RUBBER GOODS MANUFACTURERS

Bombay Rubber Works Pvt. Ltd.—Saki Vihar Road, Next to Universal Agencies, Bombay 72.

CARONA SAHU CO., LTD.—"Fort House," 221, Dadabhy Naoraji Road, Bombay-1. Manufacturers of Canvas, Rubber Shoes & Chappals, Leather Shoes with Moulded Rubber Soles, Chappals with Microcellula Soles and Children's Leather Sandals with Rubber Soles. Phones: 266415-6. Grams: "CARONASAHU".

Cosmos India Rubber Works P. Ltd.—7, Homji Street, Fort, Bombay 1.

Diamond Rubber Works Pvt. Ltd.—276, Nagdevi Street, Bombay-3. Dunlop India Ltd.—Dunlop House, Hughes Road, Bombay 7.

Eastern Stores & Trading Co., Ltd.—115a, Nagdevi Street, Bombay 3.

EBRAHIM ALLIBHOY & SONS (ESTD. 1934).—Manufacturers & Exporters & Stockists. 260-64, Abdul Rehman Street, Bombay 3. Phone: 325163. Cables: "EALISONS".

Empire Industrial Works.—Warden House, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Heptoola Noorndin & Co.—152, Nagdevi Street, Bombay.

HIND RUBBER INDUSTRIES PRIVATE LTD.—Suryodaya Mills Compound, Tardeo, Bombay 34 W.B. Phone: 319555. Grams: "HINDRUBBER." Manufacturers of Moulded rubber goods such as Bicycle Pedal Rubbers, Brake Rubbers, Seat Covers, Reflectors, Solid Tyres and Rubber Accessories for Tricycles & Perambulators, Solid Tyres for Trolleys, Complete Trolley Wheels and various industrial rubber goods required by Railways, Mills, Power Houses, Automobile Industry, etc. Managing Director: Shri Shankarlal G. Jhunjhunwalla.

HINDUSTAN RUBBER WORKS.—402, Veer Savarkar Marg, Prabhadevi, Bombay-25. Manufacturers of Rubber Ebonite Rollers, Rubber-lining of Tanks & Industrial Articles of Rubber Ebonite. Phone: 451965.

INDIA RUBBER PRODUCTS.—Kasturchand Mills Estate, Dadar, Bombay 28. Phone: 454072. Manufacturers of Industrial & Moulded Rubber Products such as Rubber Bushes, Rings, etc. to Drawing and Specifications.

International Rubber & General Industries Private Ltd.—24, N. Jai Road, Bombay 9.

JAI HIND RUBBER PRODUCTS (PVT.) LTD.—391F, Grant Road, Bombay-7. Mfrs. of Rubber & Ebonite Goods in Natural & Synthetic Rubber for Textile, Cement, Sugar, Railways & Automobile Industries in all shapes and sizes Extruded or Moulded. Phone: 354429.

KIRTI RUBBER WORKS.—205/207, S. V. Road, Jogeshwari, Bombay-60. Phone: 573639/572016. Manufacturers of natural, ebonite & Synthetic rollers for sugar, textile paper printing & rayon industries and Rubber lined tanks, valves & pipe-lines, etc.

PHONE: 326840

GRAMS: "YOUTH"

MERCHANT BROTHERS

151, NAGDEVI STREET, BOMBAY 3

Authorised dealers of DUNLOP & GOODYEAR

Rubber Hose, Beltings, V-Belts, Trolley Wheels, Fire-fighting Equipment, Rubber Sheets, Insertions, Rubber Gloves, Gum-Boots, Plastic Pipes & Fittings, Oil Resistant Neoprene Sheet & Other Moulded Parts, etc.

TRADE INQUIRIES INVITED

Korula Rubber Co. Private Ltd.—Worli, Bombay 18.

LOTUS RUBBER INDUSTRIES.—Inside V. G. Market, Grant Road, Bombay-7. Mfrs. of O'Rings, Oil Seal, Ram Ring, Jack Washers, Suspension kits, Dumper Washers etc. etc., for Automobiles, Hydraulic Pumps, Compressors, Dumpers etc. Phone: C/o. 354429.

Modak Rubber Products Private Ltd.—Kondivata Village Road, Opp. Marol Bazar, Bombay 59.

ORIENTAL RUBBER INDUSTRIES PRIVATE LTD.—Agra Road, Bhandup, Bombay 78. Phone: Office: 254395 Works: 581658-59. Grams: Office: "ORIENRUBER," Bombay. Works: "Oriental," Bhandup. Manufacturers of "Oriental," "LIBRA" & "RITTA" Brand Rubber Canvas Ply Conveyor

and Transmission Beltings, Suction, Delivery, Pneumatic and Vacuum Hoses, Rubber Sheetings, All types of Rubber Fittings for Railways, Mechanical & Moulded Rubber Goods, Poll Star and Poll Master Cycle Tyres and Cycle Tubes, Chief Technologist & Director: V. N. Makar, A.I.R.I. (London).

Paradise Trading Corporation.—Ali Chambers, Dean Lane, Fort, Bombay 1.

Precision Rubber Co. (India).—Jaya Talkies Bldg., Vivekananda Road, Bombay 92.

PREMIER RUBBER & CABLE INDUSTRIES.—Jamal Building, 211, Nagdevi Street, Bombay 3. Phone: 326551. Grams: "RUBERGOODS." Manufacturers of Premier Cycle and Rickshaw Tyres, tubes, rubber solution, Hose pipes of all types, Rubberised texture, Rubber belings, moulded and extruded articles. Factory: Plot No. C-15, C-16, C-17 M.I.D. C. Dombivli Industrial Estate, Kalyan Sheel Road, Dombivli (Dist. Thana).

Radiant Rubber Industries (Private) Ltd.—Mahalaxmi Woollen Mills Compound, off Jagtap Marg, Bombay 11.

Royal Hardware Mart.—108, Nagdevi Street, Bombay 3.

Rubber Industries (India).—243, Abdul Rehman Street, Bombay 3.

RUBBER PRODUCTS PRIVATE LTD.—Chincholi Naka, Swami Vivekanand Road, Malad, Bombay 64. Phone: 692538. Manufacturers of Moulded & Extruded Rubber Components from Natural and Synthetic Rubber for Automobile, Sugar, Rayon, Pharmaceuticals and other Industries; Solid Tyres, Hose Pipes, Suction and Delivery and special hoses to Party's Specification.

Sandow Traders.—Examiner Building, N. Master Road, Fort, Bombay 1.

Sorabji D. Daruwalla.—Round Bldg., Kalbadevi Road, Bombay 2.

STANDARD EQUIPMENT CORPORATION.—G.P.O. Box No. 914, 19, Bank Street, 2nd floor, Fort, Bombay-1 BR. Telephone: 252625. All types of Rubber Hand Gloves such as Acid & Alkali Proof, Surgical, Post Mortem & Electric Proof Rubber Gloves, Rubber Aprons, Gum Boots etc., Industrial Rubber and Ebonite Parts such as Rings, Washers, Diaphragms Bushes etc. as per your specifications; Trolley Wheels & Trolley Tyres, also Hand Trucks, Ebonite Rods & Sheets, Natural & Synthetic Industrial Rubber Rollers & Synthetic Rubber Rollers for Ptg. Presses a speciality.

Supreme Industries Ltd.—Old Laxmi Mills Compound, Wadala, Bombay 31.

TODI INDUSTRIES PRIVATE LIMITED.—Lower Parel, Bombay-13. Phone: 371336. Grams: "OFFER". Manufacturers of Cycle tubes "Newton" & "Yokohama".

Vidut Cable & Rubber Industries.—Kandivli, Govt. Industrial Estate, Bombay 67.

- ★ Cycle Tyres
- ★ Rubber Beltings
- ★ Insertion & Solid Sheets
- ★ Foot-board Matting
- ★ Hospital Rubber Sheets

ZENITH RUBBER & PLASTIC WORKS

Rangoonwala Building,
91, Mohamedali Road,
Bombay-3 B.R.

SAFETY WEAR FOR INDUSTRIAL WORKERS

Fida Traders.—97, Dhaboo Street, Bombay 3 (BR).

INDUSTRIAL CLOTHING CO.—Manufacturers of Uniforms for Industrial Workers, Peons, Drivers, Watchmen, etc. 29, Meadows Street, Shroff Building, (2nd Floor), Fort, Bombay 1. Phone: 315235 (Factory).

Pradeep Packagers.—471, Sardar Patel Road, Bombay 4.

STANDARD EQUIPMENT CORPORATION.—G.P.O. Box No. 914, 19, Bank Street, 2nd floor, Fort, Bombay 1 BR. Telephone: 252625. Specialised in all types of Handgloves, Aprons, Safety Goggles, Respirators, Face Guard, Sleeves, Hand Shield, Gum Boots, Leg Guards etc.

Trade (India) Corporation.—58, Mohamedali Road, Bombay 3. Phone: 324557. Grams: "TINDICO". Stockists of Welding Accessories wire Brushes & Engineering College requisites.

Universal Agencies.—250, Beay Road, Opp. Railway Bridge, Bombay 10.

VISHWA BHARATI TRADING CO.—45, Mint Road. Post Box No. 1052, Bombay 1. Phone: 266371 (All Depts.), Grams: "VIBHACO." Branch: G.P.O. Box 2628, Calcutta 1. Phone: 336680. Mfrs. of Industrial Safety Equipments, such as Goggles, Gloves, Dust Masks, Gas Protection Respirators, Helmets, Safety Belts, Aprons, etc.

SALT MERCHANTS

Bhiwandiwalla & Co., H. M. D. H.—583, Chira Bazar, Bombay 2.

MIRA SALT WORKS CO.—Lalji Mansing Bldg., Lohar Chawl, Bombay 2. Works: Mira Road (W. Rly.). Phone: 662153. Grams: "MIRASALT." Salt Manufacturers.

ORIENTAL SALT TRADING CO.—207, Samuel Street, Bombay 3. Manufacturers and Suppliers of Common Salt to Industrial Concerns and Retail and Wholesale Dealers. Phone: 327664.

SAND TESTING EQUIPMENT

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Nagindas Master Road, P.O. Box 1909, Bombay-1. Phones: 251882 & 251839. Also at Calcutta, New Delhi, Madras & Baroda. Manufacturers of "PCI" Control Instruments and other Sand Testing Equipment, e.g., Rammer, Permeability Meters, etc., in Technical Collaboration with "Ridsdale/Dieterts" of U.S.A. & U.K.

SANITARY ENGINEERS

AECO CONSTRUCTION CO.—Sanitary Engineer, Licensed Plumber and Building Contractor. On the list of Government, P.W.D., B.I.T., Bombay Municipality, M.E.S. Naval and Native States. Office: 91-93, Bapu Khote Street, Bombay 3. Phone No. 332598. Residence Phone No. 379578.

Advance Tube Co.—99, Nagdevi Street, Bombay 3.

A. G. Karimji Calcuttawalla.—82, Kika Street, Bombay 4.

ASGARALI NURRUDDIN & CO. (ESTD. 1916).—95, Nagdevi Street, Bombay 3. Phone: 322609; Res. 532753. Sanitary-ware, Hardware & Pipe Fittings Merchants.

Badrudin Hasanali & Co.—43, Gulalwadi, Kika Street, Bombay 4.

B. Bamboat & Co.—56, Kranti Marg, Bombay 26.

Bhathena, B. N., & Co.—100, Nagdevi Street, Bombay 3.

Burjor Framji & Co.—Marine Mansion, Marine Lines, Bombay 3.

Chunilal Parikh & Co.—478, M. Azad Road, Bombay 4.

Dhamankar, W., & Co.—196A, Shankar Sheth Marg, Bombay 4.

Esoofally Dawoodbhoy.—18, Doctor Street, Bombay 3.

Esoofally Adamji & Co.—134, Nagdevi Street, Bombay 3.

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Nanalal Pandya & Co.—Angrewada, Kalbadevi Road, Bombay 2.

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Pawar, B., & Co.—1, 2, Ardeshir Dady Street, Bombay 4.

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Machines. G.J. Shah, Manager, G. D. Ved, Secretary, U. M.
Bhatt, Asst.

Bombay Textiles Mills.—Survodaya Mills Compound, Tardeo Road,
Bombay 34.

Bradbury Mills Ltd.—State Bank Bldg., Bank Street, Fort, Bombay 1.

Cadell Wvg. Mill Co., Private Ltd.—400, Savarkar Marg, Bombay 25.

Calico Industrial Engineers.—20A, Chakala Road, Bombay 69.
Central Wvg. & Mfg. Co.—Swastik Mills Compound, Ferguson
Road, Bombay 13.

Champaklal & Bros.—Sayee Bhuvan, 141, S. Gandhi Road, Bombay 2.

Chowkshi Silk Mills.—16, Chhipi Chawl, Zaveri Bazar, Bombay 2.

D. V. INDUSTRIES.—167, Bhavanishankar Road, Dadar, Bombay 28. Phone : 451865. Grams : "TEJCHHAYA," Manufacturers & Exporters of Rayon & Synthetic Fabrics. Partners : V. J. Radia, C. M. Javeri, Mrs. S. C. Javeri and Shri D. V. Radia. Manager : K. G. Patel. Sales Office : 367-A, Kalbadevi Road, Bombay 2. Phone : 319341.

Dinesh Silk Industries Ltd.—Bombay-Agra Road, Bombay 78.

ELDEE VELVET & SILK MILLS PRIVATE LTD.—243/A, DeLisle Road, Bombay 13. Phone : 375070. Grams : "ELDI-SILK." Manufacturers of All Rayon, Silk, Cotton, Woollen—Pile Fabrics such as Velvets, Velvetene, Corduroy, Carpets, Plush, etc. Directors : D. R. Nayar, K. L. Nayar, B. B. Nayar, J. M. Nayar. Works Manager : S. L. Mehta, Secretary : G. K. Nair.

Ganga Silk Mills.—110, Dr. Annie Besant Road, Bombay 18.

Harichand Textile Mills Private Ltd.—Agra Road, Vikhroli, Bombay 79.

Hazari Silk Mills.—Kasara-Bdr. Road, Mazagaon, Bombay 10.

Hind Silk Mill Private Ltd.—Dahanukar Building, Resham Bazar, Bombay 2.

JAGDAMBA FABRICS WVG. WORKS.—Goregaon (East), Bombay 63. Phone : Office : 691512; Res. : 533889.

JAIFABS RAYON INDUSTRIES PRIVATE LIMITED.—Agra Road, Ghatkopar, Bombay 77. Phones : 582561, 582562 & 582321; Grams : "JAIFABS."—Ghatkopar; Manufacturers of: Terylene Suitings and Shirtings, Polyester Printed Sarees. Nylons, Twinkle Nylons, Crepes, Dyed and Printed Satins, Taffetas, etc.

Jasmine Mills Private Ltd.—Dharavi Road, Bombay 17.

Jyoti Silk Industries.—280, Tilak Marg, Bombay 2.

Kamala Mills Ltd.—Kilachand Devchand Building, Apollo Street, Fort, Bombay 1.

Kapoor Silk Mills.—Nagindas Chambers, P. D'Mello Road, Bombay 1.

Khaitan Silk Mills Private Ltd.—St. Mary's Road, Mazagaon, Bombay 10.

Khetan Industries P. Ltd.—Khetan Bhuvan, 198, Jamsedji Tata Road, Churchgate Reclamation, Bombay 1.

Khetani Textile Industries, Private Ltd.—106, Bazar Ward, Old Kurla, Bombay 70.

KIRAN SILK MILLS LTD.—Kasturchand Mill Compound, Dadar Road, Bombay-28. Phone : 453543. Director : G. K. Desai.

Liberty Silk Mills Private Ltd.—106, Bazar Ward, Kurla, Bombay 70.

Madan Mohan Dyeing, Printing & Silk Mills.—419D, Joshi Wadi, Kalbadevi Road, Bombay 2.

Mahavir Silk Mills.—6g, Shamshet Street, Bombay 2.

Modern Textile, Rayon & Silk Mills Pvt. Ltd.—Opp. 115 B.D.D. Chawl, Bombay 13.

Mokanlal Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10.

Narendra Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10.

National Industrial Works.—Palonji's Chawl, Sussex Road, Bombay 27.

National Rayon Mills.—Mogra, Off Nagardas Road, Andheri (East), Bombay 69.

Neeru Silk Mills.—Formerly known as Nehru Silk Mills, Mathuradas Mills Compound, Lower Parel, Bombay 13.

New Hindustan Silk Mills.—Narayan Nagar, Agra Road, Ghatkopar, Bombay 77.

New India Textiles.—Suryodaya Mills Compound, Tardeo, Bombay 34.

New Kaiser-i-Hind Spg. & Wvg. Co., Ltd.—Gorapdeo Road, Bombay 33.

New Oriental Silk Mills Private Ltd.—27, Picket Cross Road, Bombay 2.

New Santosh Silk Mills.—Mahakali Chawl, 2nd Floor, Pydhoni, Bombay 3.

New Sun Mills Co., Ltd.—Madhaorao Scindia Mills Compound, Lower Parel, Bombay 18.

New Vinod Silk Mills Private Ltd.—Kasturchand Mills Estate, Bombay 28.

Novelty Silk Mills.—Swami Vivekananda Road, Dahisar (W. Rly.), Bombay 68.

Orkay Group of Industries.—24, Bomanji Master Road, Bombay 2.

Panalal Silk Mills Private Ltd.—Atlas Mills Compound, Reay Road, Bombay 10.

Panalal Silk Mills Private Ltd.—Shastri Marg, Bombay 78.

Paragon Textile Mills.—Opp. Century Mills, Off Globe Mills' Passage, Bombay 13.

Parekh Silk Mills.—Paranjape 1B Scheme, Sonari Road, Vile Parle (East), Bombay 57.

Phoenix Mills Ltd.—Tulsi Pipe Line Road, Lower Parel, Bombay 13.

Pratap Silk Mills.—New Silk Bazar, Kalbadevi, Bombay 2.

Raghuvanshi Mills Ltd.—11, Haines Road, Mahalaxmi, Bombay 13.

Rajkamal Silk Mills.—34, Nesbit Road, Mazagaon, Bombay 10.

RAJRATNA SILK MILLS.—20, Navroji Seth Street, Thakurwar, Bombay 2—BR. Phones : Office : 314615-299344; Mills : 691331-32. Grams : "PITIMIL," Bombay-2 BR.

Ramkrishna Silk Mills.—110, Dr. A. Besant Road, Bombay 18.

Rayon Textile Mfg. Co.—Mogul Lane, Bombay 16.

Resham Textile Mills Private Ltd.—55, New Marine Lines, Bombay 1.

Sadhana Textile Mills Private Ltd.—Off Globe Mills Passage, Worli, Bombay 18.

Saraswati Silk Mills.—34, Champshi Bhimji Road, Bombay 10.

SASSOON & ALLIANCE SILK MILL CO., LTD.—Victoria Road, Mazagaon, Bombay-10. Regd. Office : Podar Chambers, Sayyed Abdulla Brelvi Rd., Fort, Bombay-1. Phone : Office : 254423 (8 Lines). Mills : 371380. Manufacturers of : Shantungs, Terylene, Nylon & Bush Shirtings, Satin & Taffeta Brocades, Nylon Satin Sarees & Twinkle Nylon, Crepes, Gold Silver etc., etc. Directors : Ramnath A. Podar, Chairman ; Manooabhai Doongursee, Jayantilal R. Mehta, Kamalnayan J. Bajaj, Kantikumar R. Podar, D. N. Shroff, Vinaykumar R. Podar, Sagarmall Doongarmall Bhiwaniwalla, M. N. Bajaj, B.A., B.Com., General Manager. J. B. Saldanha, Secretary.

Saurashtra Silk Mills.—36, Bhangwadi, Kalbadevi, Bombay 2.

Shanghai Mill Ltd.—Ishwarbhai Patel Estate, Bombay 63.

Shanti Rayon Mills—Ganapati Bagh, Tokershi Jivraj Road, Bombay 15.

Sharda Silk Mills Pvt. Ltd.—Mills : Atlas Mills Compound, Reay Road, Bombay 10. Office : Dahanukar Building, 2nd Floor, Kalbadevi, Bombay 2.

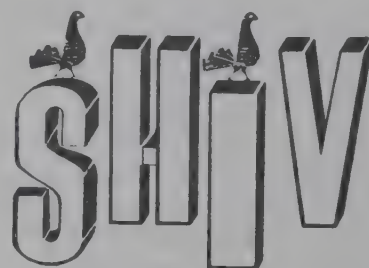
SHIV SILK MILLS

Office : 91 Shalimar, 'G' Road, Marine Drive, Bombay-2.

Mills : S. V. Road, Dahisar, Bombay-68.

Associates of :

Messrs. Rajmal Paharchand (AARPEE)
(See "Commercial Firms"), Bombay.



Shree Central Silk Mills.—Agra Road, Bombay 70.

Shree Mohan Dyeing, Ptg. & Wvg. Mills.—Gandhi Mansion, New Silk Bazar, Bombay 2.

Shree Shakti Mills Ltd. No. 2.—Podar Chambers, S. A. Brelvi Road, Fort, Bombay 1.

Standard Mills Co., Ltd.—Krishna Chowk, M.J. Market, Bombay 2.

Subhas Silk Mills.—N. Vasanji Road, Bombay 70.

Suryakant Textile Mills.—23, Tamba Kanta, Bombay 3.

Venus Silk Mills.—Suryodaya Mills Compound, Tardeo, Bombay 34.

Vijay Silk Mills.—280, Carnac Road, Bombay 2.

Vikram Industries.—167, Bhavani Shankar Road, Dadar, Bombay 28.

SILK MILL MACHINERY & STORES SUPPLIERS

INDIA RUBBER PRODUCTS.—Kasturchand Mills Estate, Dadar, Bombay-28. Phone : 453072. Manufacturers of Industrial & Moulded Rubber Products, such as Rubber Bushes, Rings, etc. ; to Drawing and Specifications.

R. R. JINDE & CO.—14, Mohan Nivas, Chândavarkar Road, Bombay 19. Grams : "GOLDENHILL." Phone : 472267.

SILVER SOLDERS

National Refinery Private Ltd.—87, J. Dadjee Road, Bombay 34.

SIRENS & BLOWERS

Harry's Trading Co.—Commerce House, N. Master Road, Bombay 1.

SIZING MATERIALS

Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort, Bombay 1.

ASSOCIATED ENTERPRISES.—Manufacturers of the most popular sizing materials for Rayon & Synthetic yarns. 12A, Mahendra Industrial Estate, Behind Sion Fort, Sion (East), Bombay-22. Tel. Nos. : 475793-475188-555661.

Bhogilal & Co.—Botawalla Building, Horniman Circle, Bombay 1.
Brady, W. H., & Co., Ltd.—12, Veer Nariman Road, Fort, Bombay 1.

CHUDGOR & CO. PRIVATE LTD.—Regd. Office: Anand Bhuvan, Princess Street, Bombay 2 (B.R.). Phones: C/o 311023, 311024 & 311025. Grams: "CHUDGORECO," Bombay 2 (B.R.). Dealers in Chemicals, Dyes, Sizing Materials, Waxes, etc.

Dandekar Company.—Bombay Mutual Annexe, 17, Gunbow Street, Fort, Bombay 1.

Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Bombay 1.

General Textile Stores P. Ltd.—27, N. Master Road, Fort, Bombay 1.
Harcastle, Waud & Co. Private Ltd.—Alice Building, D.N. Road, Fort, Bombay 1.

Imperial Chemical Industries (India) P. Ltd.—Crescent House, Wittet Road, Ballard Estate, Bombay 1.

Indo-British Chemical Co.—Raja Bahadur Mansion, 11, Tamarind Street, Fort, Bombay 1.

Industrial Minerals and Chemical Co.—125, Narayan Dhuru Street, Bombay 3.

Industrial Trading Agency.—36, Tamarind Lane, Fort, Bombay 1.
Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3.

Latham Abercrombie, Division of Forbes, Forbes Campbell & Co., Ltd.—Forbes Building, Home Street, Fort, Bombay 1.

Mehta, Sanghvi & Co.—303, Samuel Street, Bombay 3.

National Trading Company, The.—263, Dr. Dadabhoi Naoroji Road, P.O. Box 158, Bombay 1.

Poojajee Jehanzir J. M. Byramji Mansion, Sir Phirozshah Mehta Road, Bombay.

Rasiklal & Co., Ltd.—89, S. Gandhi Marg, Bombay 2.

Sizing Materials Co., Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort, Bombay 1.

Standard Pulverising Co.—Atlas Mills Compound, P. D'Mello Road, Bombay 10.

Vora Trading Co.—357-A, Samuel Street, Vakil Building, Vadgadi, Bombay 3.

Waghji Lakhmidas & Co.—82, Kazi Syed Street, Bombay 3.

SLOTTED ANGLE

Macneill & Barry Ltd. Kilburn Division.—Gresham Assurance House, Pherozeshah Mehta Road, Fort, Bombay 1.

Killick Slotted Angles Limited.—Killick House, Home St., Bombay 1.

Metrex Private Ltd.—Sunder Bldg. Estate, Shastri Marg, Bombay 70.

VINAR LIMITED.—Structo Slotted Angles & Accessories. Manufactured with Canadian Collaboration—Ideal for storage racks, ladders, Mezzanines, Trolleys, Sheds, Conveyors, etc. etc. Enquiries be addressed to Vinar Limited, 59, Apollo Street, Fort, Bombay-1. Phones: 255748-49 & 297362.

SOAP FACTORIES

DIANA SOAP CO.—Sussex Road, Near Victoria Garden, Byculla, Bombay-27 DD. Phone: Office & Factory: 373799. Partners: M. J. Wadia, K. J. Wadia.

SOLDERING & BRAZING EQUIPMENTS

VISHWA BHARATI TRADING CO.—45, Mint Road, Post Box No. 1052, Bombay 1. Phone: 266371 (All Depts.). Grams: "VIBHACO." Branch: G.P.O. Box 2628, Calcutta 1. Phone: 336680. Manufacturers of all kinds of Metals, Welding, Brazing & Soldering requirements.

SOLDERING IRONS

BAJAJ ELECTRICALS LTD.—45-47, Veer Nariman Road, Bombay 1. Marketing Electrical Consumer Goods, Electrical Engineers, Manufacturers and Contractors. Phone: 25-3841. Grams: "SOFTLITE." Branches at: Bombay, Calcutta, Delhi, Madras, Kanpur, Patna, Indore, Wardha, Gauhati, Hyderabad, Jaipur, Jullundur & Bangalore.

SOLVENT EXTRACTION PLANT

BHARAT INDUSTRIAL CORPORATION.—Manufacturers of oil expellers-spares, filter presses, Copra cutting machines, Baby Boilers, Solvent Extraction Plant, Vegetable Ghee plant, vegetable oil refinery plant, elevators & conveyors, plate & structural fabrication. Petit Compound, Grant Road, Bombay-7. Phone: 358061. Grams: "EXPELPART".

DE SMET (INDIA) PVT., LTD.—Khanna Construction House, 44, Maulana Abdul Gaffar Road, Worli, Bombay 18 (WB), Phones: 372231-2-3. Grams: "EXTRAXMET." Manufacturers of Solvent Extraction Plants, Vegetable Oil Refining Plants, Cotton seed Processing Equipments, Cattlefeed Plants, Vanaspati Plants. Factory: Panch Pakhadi, Eastern Express Highway, Thana.

SOLVENTS (ORGANIC & INORGANIC)

COMMERCIAL SOLVENTS CORPORATION.—Commissariat Building, 5th Floor, 231, Dr. Dadabhoi Naoroji Road, Bombay 1. Phones: 265446, 262762. Grams: "SOLVO." Stockists of Chemicals, Solvents, etc.

CHEMISOL INDUSTRIES.—41, Princess Street, Bombay 2. Phone: 29086. Grams: "BAYCITY." Importers and Manufacturers of Industrial Organic Chemicals, Solvents and Adhesives.

SHANTILAL DHARMSHI.—Chemical for your requirements in Chemicals, Solvents & Intermediates. 349/53, Samuel Street, Bombay-3. Phones: 323981-82. Grams: "SANTITOLIA", Bombay-3.

SOUND RECORDING EQUIPMENT

Ama Private Ltd.—Canada Building, D. N. Road, Fort, Bombay 1.
Chicago Telephone & Radio Co. Ltd.—127, Mahatma Gandhi Road, Fort, Bombay 1.

General Radio and Appliances Ltd.—Unity House, M. Paramanand Marg, Bombay 4.

National Education and Information Films Ltd.—National House, Tulloch Road, Apollo Bunder, Bombay 1.

Patel (India) Priv. Ltd.—190, D. N. Road, Fort, Bombay 1.

Western Agencies' Co.—421, Lamington Road, Bombay 4.

SPICES AND ASAFOETIDA

Bhanushali Brothers P. Ltd.—170, Sant Tukaram Road, Bombay 9.

Bombay Hing Supply Co.—66, Yusuf Meherally Road, Bombay 3.

Bombay Kiryana Industries.—204, Samuel Street, Vadgadi, Bombay 3.

Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay 9.

Damji Mavji & Co.—177, Khoja Gulli, Bombay 3.

Deepak Trading Co.—70, Y. Meherall, Road, Bombay 3.

Dubash Frers & Co.—26, S. A. Brelvi Road, Fort, Bombay 1.

Fruit Farm Products.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Gandhi Sons Ltd.—Gandhi Building, Samuel Street, Bombay 3.

Gopaljee & Co.—218, Samuel Street, Bombay 3.

Hashambhoi Aloo Mahomed & Sons.—Dostmahomed Building, Nishanpada Road, Bombay 9.

Lalhmichand Vasani & Co.—225, Samuel Street, Bombay 3.

Laljee Godhu & Co.—213, Samuel Street, Bombay 3.

Narandas Kesurdas & Sons.—222, Samuel Street, Bombay 3.

New India Hing Supplying Co.—215, Samuel Street, Bombay 3.

Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort, Bombay 1.

Sudan Trading Co.—Dhun-Nur, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Trans-Union Commercial Corporation Private Ltd.—319, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.

Varijiwandas Hirjee & Co.—240, Samuel Street, Bombay 3.

Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi, Bombay 3.

Vikaam Padamsey & Co.—29, Veer Nariman Road, Fort, Bombay 1.

Waghji Lakhmidas & Co.—82, Kazi Syed Street, Bombay 3.

SPORTS GOODS MANUFACTURERS AND DEALERS

A. N. KAPUR & CO.—Court House, Dhobi Talao, Bombay 2. Phone: 22776. Grams: "SANDAL." Manufacturers & Stockists of Sports & Games, Agility & Play ground apparatus. Approved Contractors to Government.

Alfa Sports.—Metro House, Dhobi Talao, Bombay 1.

Artytoys.—Cawasji Jahangir Colony, Tardeo, Bombay 7.

Bombay Sports.—Jer Mahal, Dhobi Talao, Bombay 2.

Ebrahim Allibhoj & Sons (Estd. 1934).—Exporters & Stockists. 260-64, Abdul Rehman Street, Bombay 3.

I.C.I. (India) Private Ltd.—Wittet Road, Crescent House, Ballard Estate, Bombay 1.

Jhaveri Bros. & Co. P. Ltd.—345, Abdul Rehman Street, Bombay 3.

Jhaveri Sports & Gifts.—Jer Mahal, Dhobi Talao, Bombay 2.

K. L. Malhotra Brothers.—Branch Office: Mohatta Market, 5th Floor, Palton Road, Bombay 1.

Mahomedally Noorbhoy.—244, Abdul Rehman Street, Bombay 3.

Nadkarni & Co. Sports.—Ava Chambers, next to Metro Cinema, Dhobi Talao.

Pioneer Sports Private Ltd.—292, Tilak Marg, Bombay 2.

SYMOND DISTRIBUTORS PRIVATE LTD.—Eruchshah Bldg., 249, Dr. Dadabhoi Naoroji Road, Bombay 1; 18, Netaji Subhas Road, Calcutta 1; and 15, Elgin Road, Allahabad. Sole Distributors in India for the "SLAZINGER" Sports Goods, made in India.

United Importers Corporation.—Alkarim Manzil, Palton Road, Bombay 1.

Wagle & Co.—290, Carnac Road, Bombay 2.

SPRAY PAINTING & INDUSTRIAL FINISHING EQUIPMENT MFRS.

BULLOWS INDIA PRIVATE LIMITED.—Manufacturers of Spray Guns, Nopump and Dry Back Spray Booths, Air Filters, Paint Containers and complete Industrial Finishing Installations. 60, Sir Phirozeshah Mehta Road, Bombay 1. Telephones: 262697/8.

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Bombay Spring Works.—118, Dadasaheb Phalke Road, Bombay 14.
Cosmos Industries.—26, 1st Old Hanuman Cross Lane, Kalbadevi, Bombay 2.

CRESCENT SPRINGS.—238, Nandanvan Industrial Estate, Opp. ACC Research, Agra Road, Thana. Phone: 593072. Grams: "COILSPRING". Manufacturers of coil & strip springs on a latest automatic machinery.

IMANES PRIVATE LIMITED.—94, S. V. Road, Eria, P.O. Box 8002, Bombay 56 AS. Phone: 571634. Grams: "IMANESCOL." Springs & Forms out of Spring Wires and strips for your Industry.



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Telephones: 376900 & 379159 (Office) and 372640
(Factory). "Gram: COILSPRING", Bombay.



SPRING WASHERS MANUFACTURERS

FAIRFIELD MANUFACTURING CO.—Hanuman Building, 4th Floor Tambakanta, Pydhowni, Bombay 3 (BR.). Phones: 324323 and 323758. Grams: "MASRANICOY." Manufacturers of Spring Washers, Shake Proof Washers, Circlips and Precision Strip forms. Factory at: Masrani Estate, Halav Bridge, Kurla, Bombay-70 (AS.).

STAINLESS STEEL BOLTS & NUTS

F. B. INDUSTRIES.—P.O. Box No. 3147, 132, Sarang Street, Bombay-3. Phone: Call 326663. Manufacturers of Stainless Steel and Non-Ferrous Bolts, Nuts, Washers, Machinery Spares and Components as per customer's specification. Hindustan Tools & Engineering Co.—Picket Cross Lane, Bombay 2.

STAINLESS STEEL PIPES & FITTINGS

HINDUSTAN TOOLS & ENGINEERING CO.—P.O. Box No. 2311, Picket Cross Lane, Bombay-2. Phone: 318965. Grams: "DRILLTAPS." Stockists of Engineering Tools, Hardware, Millgin Stores & Stainless Steel Pipe-fittings.

STAINLESS STEEL WIRE NETTING

INDUSTRIAL ENGINEERING CO.—H.O.: 51, Apollo Street, Fort, Bombay 1. Phone: 257778. Direct Importers of Tool, Alloy, special Steel & Stainless Steel Bars, etc.

Kumar & Company.—31, Old Post Office Lane, Bombay 2.

S. MEHTA & CO.—Anees Chambers, Carnac Road, Bombay 1. Phone: 26-3001. Grams: "DUTYBOUND". Telex. 011-2624. Industrial Wire Netting and Perforated Metals, Stainless Steel Wire Nettings; and Monel Metal Wire Nettings; Importers, Exporters and Merchants.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay 1.

STAINLESS STEEL UTENSILS MANUFACTURERS & DEALERS

Bombay Steel Corporation.—140, N. Master Road, Bombay 1.

DEVIDAYAL STAINLESS STEEL INDUSTRIES PRIVATE LTD.—Gupta Mills Estate, Reay Road, Bombay 10. Local Sales Office: 39, 2nd Bhoiwada, Bombay 2. Phone No.: 37011-19. Grams: "DEVISTEEL." Manufacturers of a wide range of Kitchen utensils, Tableware, Electric Kettles, Pocket-Tiffin Carrier, Fabricated Steel Tanks for Food & Chemical Industries, Wash Basins and Hospital Equipments and Railway Fittings.

HARSHADRAY PRIVATE LTD.—Jiji House, Raveline Street, Bombay 1. Phones: 266281 (4 lines). Grams: "FACTORIND." Factory: Pandit Jawaharlal Nehru Road, Santa Cruz, Bombay 54. Phone: 532432.

LALLUBHAI AMICHAND PRIVATE LTD.—Proprietors: Dun Aluminium Factory, 225/27, Tardeo Road, Bombay 7. Manufacturers of "CYCLE" Brand Aluminium wares & "QUEEN" Brand Stainless Steel Utensils & other non-ferrous metalware. Phones: 377154 (4 lines), 333987 & 333988. Telex: 011-2464. Grams: "CYCLEBRAND."

M. P. Shah & Co.—174, Bhadkamkar Marg, Bombay 7.

National Metal Industries.—15/A, Parel Village Road, Parel, Bombay 12.

Oriental Metal Pressing Works P. Ltd.—131 Worli, Bombay 18.

Pearl Metal Works.—20, Wadi Bunder Road, Mazagon, Bombay 10.

PITAMBARDAS LALLUBHAI & CO.—86, Kansar Chawl, Kalbadevi Road, Bombay-2 (BR.). Manufacturers of: "AGNIRAJ" Stoves, Lanterns, Aluminium, Brass, Copper & Stainless Steel Utensils, Hospitalware, Equipments and Engr. Articles. Grams: "KATORIWALA". Phones: 334816 & 334408.

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Liberty Stamp Depot.—166, Dr. Dadabhoy Naoroji Road, Bombay 1.

STARCH

C. M. Vora & Co.—160, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.
Dantamun & Co.—86, Kazi Syed Street, Bombay 3.

STATIONERY (MFRS. & DEALERS)

A. A. MORBIWALA & CO.—109/111, Abdul Rehman Street, Bombay 3. Phone: 323280. Grams: "VARNISH (MD)." Suppliers of Stitching Wires & Wires of all kinds.
Artyroys.—Cowasji Jahangir Colony, Tardeo, Bombay 7.
Bellares Private Ltd.—210A, Bhadkamkar Marg, Bombay 7.
Bharat (Sales) Limited.—People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Bombay Book Depot.—217, Charni Road, Girgaum, Bombay 4.

BOMBAY STATIONERY MART

Proprietors :

GULAMHUSEIN AHMEDALLY & CO.

7A, Sir Phirozshah Mehta Road, Fort, Bombay-1. Phones: 253897 (2 lines).

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BOMBAY PIN & ZIP MFG. CO. PVT. LTD.—Devkaran Mansion, 1st Floor, 63, Princess Street, Bombay-2. Leading Manufacturers of Swan Brand Paper Pins & Gem Clips invite enquiries from Wholesalers & Suppliers. Grams: "PINSCLIPS". Phones: Office: 313003 & 315880; Factory: 453800.

Bombay Stationery Stores.—217, Abdul Rehman Street, Bombay 3.

BRIGHT BROTHERS PRIVATE LTD.—156-A, Tardeo Road, Bombay 34. Grams: "BRIBOS." Phone: 375342 (4 lines). Plastic Stationery Articles like Desk Calendars, Memo Pads, Novelties, Paper Weights, etc.

Cama Norton & Co.—Cama Chambers, N. Master Road, Bombay 1. Camlin P. Limited.—210, Lady Jamshedji Road, Bombay 16.

Central Stationery Mart.—15, Bruce Street, Fort, Bombay 1.

Champaklal & Co.—195, Abdul Rehman Street, Bombay 3.

Chhaganlal Keshavjee (Estd. 1913).—22/A, S. A. Brelvi Road, Bombay 1.

City Stationery Stores.—S. A. Brelvi Road, Fort, Bombay 1.

CRYSTAL STATIONERY MART.—Manufacturing Stationers, such as Exercise Books, Note Books, Files, Account Books, etc. 146, Abdul Rehman Street, Bombay 3. Grams: "CRISMART." Phone: 324461.

Deelip Stationery Mart.—299, Abdul Rehman Street, Bombay 3.

Empire Traders.—18, Hassan Chambers, S. A. Brelvi Road, Fort, Bombay 1.

Enayatalli & Co.—262, Abdul Rehman Street, Bombay 3.

EVERGREEN SYNDICATE.—19/21, Hamam Street, Fort, Bombay 1. Phone: 252641. Grams: "TAPEKING." Stationers & Printers. Importers & Stockists of all kinds of Office Stationery. Chief Stockists of Cellulose Self-adhesive Tape, Brown Kraft Gummed tape Teliprinter Rolls & Drawing Materials.

GANDHI STATIONERY MART.—165, Bazargate Street, Bombay 1. Manufacturers: Comet Visiting, Invitation, Greeting, Wedding Cards, Inland/Air Letters. Phone: 265248.

General Equipment Merchants, Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

General Stationery Mart.—36, Dhanji Street, Bombay 3.

Gujarat Stationery Mart.—198, Abdul Rehman Street, Bombay 3.

Himalaya Stationery Mart.—Himalaya House, Palton Road, Bombay 1.

HINDUSTAN PENCILS PRIVATE LTD.—111/112, Himalaya House, Palton Road, Bombay 1. Phone: 261972. Grams: "WRITESFINE." Manufacturers of "AFSARA" Drawing Pencils and "NATRAJ" Writing Pencils.

H. M. Shah & Co.—181, Abdul Rehman Street, Bombay 3.

IMPERIAL STATIONERY CO., THE.—Alli Chambers, 35, Meadows Street, Fort. Stationers and Printers.

Indo-Stationery Mart.—Rahimtoola House, Homji Street, Fort, Bombay 1.

International Stationery Stores.—Victoria Building, S. A. Brelvi Road, Bombay 1.

JAGJIVANDAS NANDLAL & CO.—237, Abdul Rehman Street, Bombay 3. Phone: 323634. Grams: "SWANHOUSE." Sole Distributors for ELECTRIC PEN-PENCIL, Wax-Backed and TYPEWRITING CARBON PAPERS, ELECTRIC STAPLES in Sizes 24/6, 26/6 & B.8.

Kores (India) Ltd.—Plot No. 10, off Moses Road, Worli, Bombay 18. Kumar Stationery Mart (Estd. 1942).—109, S. A. Brelvi Road, Bombay 1.

Lalwani Printing Press.—135, S. K. Bole Road, Bombay 28.

Lion Pencils Private Ltd.—95, Netaji Subhas Road, Bombay 2.

Longmans, Green & Co., Ltd.—Indian Mercantile Chambers, Nicol Road, Ballard Estate, Bombay 1.

M. M. Kaderjee & Co. (Estd. 1913).—245, Abdul Rehman Street, Bombay 3.

M. Somnath & Co.—94, Lohar Chawl, Bombay 2.

Mahomedally Hebatbhoy & Co.—15, Mirza Street, Bombay 3.

Mehra Leonardt Pens Private Ltd.—Asha Usha Silk Mills Compound, Shastri Marg, Bombay 79.

Model Art Printery Private Ltd.—4, Nanabhai Lane, Fort, Bombay 1.

Modern Stationery Mart.—44, Cawasji Patel Street, Fort, Bombay 1.

Modern Stationery & Printing Works (Estd. 1941).—17, Gunbow Street, Fort, Bombay 1.

National Stationery Stores.—23, Parsi Bazar Street, Bombay 3.

New Book Co., Ltd.—Kitab Mahal, Dadabhoy Naoroji Road, Bombay 1.

New India Stationery Mart.—New Stock Exchange Building, Hamam Street, Bombay 1.

Pioneer Stationery Mart.—38A-B, Cowasji Patel Street, Fort, Bombay 1.

Popular Book Depot.—Aabid House, Bhadkamkar Marg, Bombay 7.

Rowland Son Bros. (Estd 1927).—109, S. A. Brelvi Road, Bombay 1.

S. M. Soni & Brothers (Regd.).—54, Abdul Rehman Street, Bombay-3.

Regal Stationery Stores.—Lentin Chambers, Dalal Street, Fort, Bombay 1.

Regent Stationery Stores.—Khodram House, New Parsi Bazar, Fort, Bombay 1.

RELIABLE STATIONERY MART, THE.—23/D, Sir Pherozeshah Mehta Road, Fort, Bombay. Phone: 252850. Highclass printers & dealers in stationery.

Renown Stationery Stores.—Byramjee Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Rowlandson Bros. (Estd. 1927).—Podar Chambers, Parsi Bazar Street, Fort, Bombay 1.

S. R. Brothers.—"Commerce House," N. Master Road, Fort, Bombay 1.

Saif & Co.—38, Sutar Chawl, Bombay 2.

SOCIAL STATIONERY MART.—Victoria Building, 27-H, Parsee Bazar Street, Fort, Bombay 1. Phone: 251466. Specialists in "SOCIAL" Files, Typewriters & Pencil Carbon Papers. Account Books & Office Requisites.

Standard Stationery Mart.—Rahimtoole House, Hamji Street, Fort, Bombay.

Sorabji Nowroji & Co.—16, Horniman Circle, Fort, Bombay 1.

Superior Stationery Mart Pvt. Ltd.—Examiners Building, N. Master Road, Bombay 1.

Suresh Stationery Mart.—285, Abdul Rehman Street, Bombay 3.

Taraporevala, D. B., Sons & Co.—P. Ltd. 210, D.N. Road, Fort, Bombay 1.

THACKER & CO. LTD.—Booksellers, Printers, Publishers, Stationers, Subscription Agents, Registered Office & Printing Press: Evergreen Industrial Estate, Shakti Mill Lane, Off Dr. E. Moses Road, Mahalaxmi, Bombay-11. BC. Phones: 378204, 378205. Showroom: 18/20, Rampart Row, Fort, Bombay 1 BR. Phone: 262613.

Union Printing Works.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1.

United Commercial Co.—15, Mirza Street, Bombay 3.

Venus Stationery Co.—Hassan Chambers, Fort, Bombay 1.

V. Prabha & Co., Ltd.—Near Sardar Patel Road, Bombay 4.

Young India Stationery Mart.—43, Ghoga Street, Fort, Bombay 1.

Zenith Typewriting Co. (India).—229, Abdul Rehman Street, Bombay 3.

STEAM TRAPS AND VALVES

CRESCENT TRADING CO.—48-50, B. Ajip'a's Street, Bombay 3. Phones: 325140 & 328944. Grams: "WATERMETERS."

GENERAL TUBES PRIVATE LTD.—142/44, Nagdevi Street, Bombay-3. Grams: "GENTUBES." Phone Nos.: 322894, 328390. Manufacturers and Exporters: C. I. Pipes, Specials, Water Meters, Valves of various tubes; Steel Pipes & Fittings for Water, Gas & Steam. Also Fabrication of Steel Pipes Fittings suitable for Rubber Linings for Special Chemical Industries. Pressure Vessels, Steam Separators and heating coils to customers' specifications.

Jivraj & Vrajlal.—122, Nagdevi Street, Bombay 3.

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone: 324645. Grams: "REDJOINT."

STEAMSHIP AGENTS

KANJI JADHAVJI & CO.—Masjid Bridge, Mandvi, Bombay 9. Phones: 323681 & 321412. Grams: "GITA." Freight Brokers, Clearing, Forwarding, Shipping, Landing & Travel Agents.

Lionel Edwards Ltd.—41, Nicol Road, Ballard Estate, Bombay 1. Marine Transport Co. Private Ltd.—Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

STEAMSHIP COMPANIES

DEMPO STEAMSHIPS LIMITED.—Bulk Cargo Carrier Operators. Address: Moti Mahal, J. Tata Road, Bombay-20. Phones: 296513/294498. Telex: 2522.

EVERETT STEAMSHIP CORPORATION (Incorporated in Philippines).—Fort House Annexe, 221, Dr. Dadabhoy Naoroji Road, Bombay 1. Phone: 264081. Grams: "STARLINER" & "EVORIENT." Shipowners, Brokers, Operators & Travel Agents.

Great Eastern Shipping Co., Ltd.—60, Mahatma Gandhi Road, Bombay 1.

MALABAR STEAMSHIP CO. LTD.—Darabsha House, Ballard Road, Ballard Estate, Bombay 1. Phones: 263625 & 263626. Grams: "RUBICON." Branches at Calcutta, Cochin, Kozhikode & Alleppey.

New Dholera Steamships Ltd.—Darabsha House, Ballard Road, Ballard Estate, Bombay.

SCINDIA STEAM NAVIGATION CO., LTD.—THE Scindia House, Dougall Road, Ballard Estate, Bombay 1. Phone: 268161. Grams: "JALANATH." (Coastal) "SAMUDRAPAR" (Overseas). Telex: 2205.

South East Asia Shipping Co. Private Ltd.—Himalaya House, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

(See pages 264-67 for more names of shipping Cos.)

STEARATES (METALLIC SOAP)

Datson Raviraj & Co. (Private) Ltd.—43, Tamarind Lane, Fort, Bombay 1.

STEEL

Ahmed A. Fazalbhoy Private Ltd.—Liberty Building, 41, Marine Lines, Bombay 1.

F. Bock & Co.—Shale Building, Bank Street, Bombay 1.

Guest, Keen, Williams Ltd.—Wakefield House, Ballard Estate, Bombay 1.

Jairamdas & Sons.—163, Narain Dhuru Street, Bombay 2.

Parrys (Eastern) Private Ltd.—"Amrita", Nepean Sea Road, Bombay-6.

Richardson & Cruddas Ltd.—Byculla, Bombay 8.

United Steel Cos. (India) Private Ltd.—Orient House, Mangalore Street, Bombay 1.

STEEL BALLS

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.—Office: Pandyan House, 309, Frere Road, Bombay 1. Phone: 261523. Grams: "GULDASTA." Factory: 38, Powai Lake Road, Saki Naka, Kurla, Bombay 70. Phone: 582681/2. Mfrs. of Steel & Alloy Balls, Grinding Media, & Automobile Parts, Miniature Balls.

STEEL CASTINGS

DANDEKAR G. G. MACHINE WORKS LTD.—Bhiwandi, Dist. Thana, Bombay. Manufacturers of Steel & Alloy Steel Castings. Grams: "DANDEKARCO" Bhiwandi. Phone: "BHIWANDI" 57.

STEEL DOORS & WINDOWS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay.

FERRO-STEEL.—36AB. Govt. Industrial Estate, Bombay-67. For Steel Windows, pressed steel doors, M. S. Tanks and pressure vessels, nuts and bolts of special types. Works: 691256; Resi.: 571873.

METALS PRIVATE LTD.—269, Dr. Dadabhay Naoroji Road, Bombay 1. Phone: Office: 265309; Factory: 534295.

Richardson & Cruddas Ltd.—Byculla Iron Works, Parel Road, Bombay 8.

Shubhdwar Rolling Shutters & Engineering Co.—15, Bank Street, Fort, Bombay.

TODI INDUSTRIES PRIVATE LIMITED.—(Engineering Division), Todi Estates, Lower Parel, Bombay-13. Phone: 371336. Grams: "OFFER". Manufacturers of Overhead Hand operated cranes, straight and circular with or without gantry girders, Fabricated items & Steel windows and Doors.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay 1.

STEEL FILES

BOMBAY HARDWARE TRADERS.—79, Narayan Dhuru Street, Masjid Bunder Road, Bombay-3. Phone: 327153. Grams: "SISTACHAR". Authorised Distributors for 'John Baker', 'Hindustan' Scissors brands Steel Files, Nettlefolds Screws, Bolts & Nuts, every kind of saws, measuring & Precision Tools, and other Hardware materials.

Jairamdas & Sons.—163, Narain Dhuru Street, Bombay 3.

JOHN BAKER & SONS.—Killick House, Home Street, Bombay 1. Phones: 581646/7/8. For Engineers' Steel Files and Plane Irons. Grams: "KINDRED." Factory at Saki Vihar Road, Bombay 72-A.S.

Shah & Brothers.—284, Nagdevi Street, Bombay 3.

Tyebally Dawoodji.—87, Sarang Street, Bombay 3.

STEEL FURNITURE

Art Steel Products.—263, Kalbadevi Road, Bombay 2.

Govin's Safe Manufacturing Co.—268, Kalbadevi Road, Bombay 2.

JANAK MANUFACTURING WORKS.—Antop Hill, Wadala, Bombay 31. Manufacturers of Steel Furniture such as Steel Shelving Racks, Canteen Furniture and Hospital Equipment. Phone: 440171. Grams: "JANAKBED" (MT). Show Room at: Kastur Nivas, 26/B, French Road, Off Hughes Road, Chowpatty, Bombay 1.

KHIRA STEEL WORKS PRIVATE LTD.—Factory: Swami Vivekanand Road, Santa Cruz (East), Bombay-54. Grams: "STEELCASE". Phone: 533226 Regd. Office and Showrooms: Khira Bhavan, Sandhurst Bridge, Bombay-7. Grams: "SWAKALA". Phone: 355451. Showroom: Fulchand Nivas, Chowpatty Sea Face, Bombay-7. Phone: 356108.

Metro Steel Products.—277, Kalbadevi Road, Bombay 2.

R. Panchal Works.—Regd. Office: 37/A, Sindhi Lane, Bombay 4. Steelmade.—230, Dr. Annie Besant Road, Worli, Bombay 18.

Yusufali Goolamhoosen Arsiwalla.—105, Abdul Rehman Street, Bombay 3.

STEEL MANUFACTURERS & MERCHANTS

BALMER LAWRIE & CO., LTD.—5, Graham Road, Ballard Estate, Bombay-1. Tel.: 261494, 264214, 264237 & 265492. Grams: "BALMER". Head Office: 21, Netaji Subhas Road, Calcutta-1. Branch: 56, Jorbagh, New Delhi-3.

Graham Firth Steel Products (India) Ltd.—16, Horniman Circle, Fort, Bombay 1.

STEEL STRIPS MANUFACTURERS

GRAHAM FIRTH STEEL PRODUCTS (INDIA) LTD.

Regd. Office: 16, Horniman Circle, Fort, Bombay-1. Phone: 252847. Grams: "GRAMFIRTH". Manufacturers of Narrow Cold Rolled Steel Strips of Plain Carbon, Medium Carbon and Alloy Steel. Factory: Firsteel Compound, Behind Jogeshwari Marshalling Yard, Western Express Highway, Goregaon (East), Bombay 63. Phone: 691802.

STEEL TUBULAR POLES (MFRS.)

BOMBAY TUBES & POLES CO.—Manufacturers of Electric Tubular Poles (on Government & Municipal Lists). Darukhana, 2nd Lane, Mazagon, Bombay 10. Phone: 376866 and 378427. Grams: "TUBESPOLES."

India Electric Poles Mfg. Co.—2nd Lane, Darukhana, Bombay 10.

STEEL (SHAFTINGS)

B. P. Steel Industries Private Ltd.—39, Mysore Chemicals Compound, Sion, Bombay 22.
Kanchan Bright Steel Corporation.—Kalanidhi, Jain Society, Sion, Bombay 22.

STEEL WOOL

Golden Fleece Steel Wool Mfg. Co.—Govt. Industrial Estate, Panchpakhadi, Thana.

STEEL WIRE MANUFACTURERS**B. R. STEEL PRODUCTS PVT. LTD.**

29/30, Vaswani Mansions, Dinshaw Vachha Road, Bombay-20, India.

PRODUCERS OF QUALITY STEEL WIRES

★ Bright Annealing.

★ Black Annealing.

Tel. 296165 (3 Lines).

Cable : "BEEAREWIRE".

SPECIAL STEELS LIMITED.

Dattapara Road, Borivli (East), Bombay-92 (NB)

Phone: 66-2421 Telex : 011-2652

Grams: "DRAWNWIRE", BORIVLI, Bombay.

Manufacturers of :

High Tensile Prestressed Concrete Wires, High Tensile Galvanised Steel Wires for ACSR Conductors, Galvanised cable Armour Wires, Umbrella Ribs Wires, Spring Steel Wires, Cycle Spokes Wires, Electrode Core Wires, Cycle Accessories Wires, Cold Heading Wires, and all other types of High, Low and Medium Carbon Steel Wires for wood screws, machine screws, panel pins, rolling shutters, ball bearings, blue tacks, card and gillpin, B rbed Wires, etc., with the technical know-how of M/s. ARBED S. A., ARBED-FELTEN & GUILLEAUME VERENIGTE DRAHTWERKE, KOLN-MULHEIM, WEST GERMANY.

STENCIL INK MANUFACTURERS

FORBES FORBES CAMPBELL & CO. LTD., LATHAM DIVISION.—Forbes Building, Home Street, Fort, Bombay.
Phone : 268081; Grams : "LATHAM."

STEVEDORES AND DUBASHES

ARDESHIR B. CURSETJEE & SONS (PRIVATE) LTD.—6, Rampart Row, Fort, Bombay. Phones: 317363, 252543 & 317141. Grams: "GREYHOUND." Master Stevedores & Dubashes, Clearing & Forwarding Agents.

Bomanji Dhunjibhoy Private Ltd.—24-A-B, Nawab Tank Road, Bombay 10.

Cowasjee Eduljee's Sons.—Hanuman Building, Fort, Bombay 1.

EASTERN BUNKERERS, LTD.—Scindia House, Dougall Road, Ballard Estate, Bombay 1. Phone: 262461. Grams: "VAVTO."

Ferns Ships Supply Company.—Wakefield House, Ballard Estate, Bombay 1.

Hillson & Dinshaw Ltd.—Marshall's Bldg., Ballard Road, Bombay 1.
J. M. Baxi & Co.—Steamship Agents & Stevedores.—16, Bank Street, Bombay 1.

KANJI JADHAVJI & CO.—Masjid Bridge, Mandvi, Bombay 9. Phones: 323681 & 321412. Grams: "GITA." Freight Brokers, Clearing, Forwarding, Shipping, Landing & Travel Agents.

NAROTTAM & PEREIRA LTD.—Scindia House, Dougall Road, Ballard Estate, Bombay 1. Phone: 262461. Grams: "JALATHARG." Shipping & Insurance Agents & Dubashes.

NEW DHOLERA SHIPPING & TRADING CO. LTD.—Stevedores, Shipping, Clearing & Forwarding Agents. Darabsha House, Ballard Road, Ballard Estate, Bombay-1. Phone: 263443. Grams: "RAVASIA."

Buttongjee Bomanjee & Co.—60, Forbes Street, Bombay 1.

Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.

Sorabji Pestonji & Co.—105, Apollo Street, Fort, Bombay 1.

STITCHING WIRES

A. A. MORBIWALA & CO.—109/111, Abdul Rehman Street, Bombay 3. Phone: 323280. Grams: "VARNISH (M.D.)." Suppliers of Stitching Wires & Wires of all kinds.

STONE CRUSHERS & JAWS

Capri Engineering Co.—296, P. D'Mello Road (Near Fort Market), Bombay 1.

STONEWARE PIPES

Nowroji N. Vakil & Co.—Sheru Castle, Mohamedalli Road, Bombay 3.
Sharman Sons.—10, Nagdevi Street, Bombay 3.

STRAW-BOARDS

Abdullahbhai Fidally & Co.—Fidaali Buildings, S. Gandhi Marg, Bombay 2.

Advani, J. B., & Co. Ltd.—Advani Chambers, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Ambalal Dharamchand & Co.—1, Esaji Street, Bombay 3.

Bombay Paper Marketing Co.—Podar Chambers, S.A. Brelvi Road, Fort, Bombay 1.

Hardcastle, Waud & Co., Ltd.—Alice Building, D. N. Road, Bombay 1.

India Paper Corporation.—64, Sutar Chawl, Bombay 2.

International Paper Co.—26, People's Bldg., Sir Phirozshah Mehta Road, Fort, Bombay 1.

Mansukhlal Sukhlal & Co.—Ghoga Street, Fort, Bombay 1.

Mohanlal & Co.—56, Sutar Chawl, Bombay 2.

Shantilal Shah & Co.—Bombay Mutual Annexe, 17, Gunbow Street, Fort, Bombay 1.

United Import Co., The.—67, Mahomedalli Road, Bombay 3.

STRUCTURAL ENGINEERS & CONTRACTORS

ALCOCK, ASHDOWN & CO., LTD.—Structural, Mechanical, Marine and Electrical Engineers. Defence Works—Mazagon, Bombay 10-DD. Phones: 372584-86 (Works); 251321-26 (Office). Grams: "ASHDOWN" Ramasar Works, Bhavnagar. Phone: 3415. Grams: "ALCOCKS." Registered Office: 16, Bank Street, Fort, Bombay 1 BR.

BHARAT TANK & STEEL CO., THE.—64, Podar Chambers, Parsi Bazar Street, Fort, Bombay. Phone: 318433. Grams: "GREND." Steel and Stainless Steel Fabrication of Industrial Equipment for Chemical, Sugar, Cement, Oil, Dyes and Dairy Industries and Structural Work.

BOMBAY INDUSTRIAL SUPPLIERS.—65, Ashok Chambers, Broach Street, Bombay-9. Phone: 328509. Grams: "PROMPT-DEAL". Fabricators of Steel Structures, tanks, vessels, pressure vessels, gratings & C. I. Castings, etc.

GENERAL TUBES PRIVATE LTD.—142/44, Nagdevi Street, Bombay-3. Grams: "GENTUBES". Phone Nos.: 322894, 328390. Manufacturers and Exporters: C. I. Pipes, Specials; Water Meters, Valves of various types, Steel Pipes and Fittings for Water Gas & Steam. Also fabrication of Steel Pipes Fittings suitable for Rubber Linings for special Chemical Industries. Pressure vessel, Steam Separators and heating oils to Customers' specification.

INDIA TUBE MILLS & METAL INDUSTRIES PRIVATE LTD.—Agra Road, Vikhroli, Bombay 83. Phone: 581541 & 581542. Grams: "TUBEMILL." Specialists in Tank Fabrication and Erection, Pressure Vessels, Laying of Oil Pipe Lines. Agents in India for Cranes Valves & Fittings.

Jayant Engineering Corporation.—14/D, Kurla Industrial Estate, Agra Road, Bombay 77.

Jindal Engineering Works.—Darukhana, Kasara Street, Bombay 10 DD.

K. T. STEEL INDUSTRIES PRIVATE LTD.—K. T. Building, Broach Street, Bombay-9.

Mapara Engineering Co.—69/4, Jagmohandas Marg, Bombay 6.

Metals Private Ltd.—269, Dr. Dadabhai Naoroji Road, Bombay 1.

Muncherjee Byramjee & Co.—(Estd. 1882).—100/RS, Nimkar Marg, Bombay 8.

Richardson & Cruddas Ltd.—Byculla, Bombay 8.

Steel Industries of Hindustan P. Ltd.—Magazine Street, Darukhana, Bombay 10.

Steel Structures Private Ltd.—Ismail Bldg., Hutatma Chowk, Bombay 1.

SUMMIT ENGINEERING CO.—G.P.O. Box No. 1357, Bombay 1. Manufacturers of Pressure and storage Vessels, Structural Steelwork Tanks, etc.

Western India Engineering Co., The.—Signal Hill Avenue Road, Bombay 33.

STRUCTURAL WATERPROOFING

Gladstone Lyall & Co., Ltd.—21, Landsdowne Road, Apollo Bunder, Bombay 1.

SUGAR MILL MACHINERY & OTHER REQUIREMENTS

- ABDEALLY, B. M., & CO.**—127, Sarang Street, Bombay 3. Phone : 326980. Grams : "ALERTDEAL."
- Asian Textile Engineering Corporation.**—Kermani Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
- BUCKAU WOLF NEW INDIA ENGINEERING WORK LTD.**—Manufacturers of Sugar Mill Machinery. 72, Medows Street, Bombay-1. Works : Pimpri, Poona-18.
- C. Amichand & Co.**—46A, Abdul Rehman Street, Bombay 3.
- ESSENTIAL ENGINEERING CO.**—11 Botawala Bldg., Elphinstone Circle, Fort. Grams : "ESSENCE." Phone : 318695. Importers, Exporters, Commission Agents and Manufacturers' Representatives.
- INDIA RUBBER PRODUCTS.**—Kasturchand Mills Estate, Dadar, Bombay-28. Phone : 454072. Manufacturers of Industrial & Moulded Rubber Products. Such as Rubber Bushes, Rings, etc. to Drawing and Specifications.
- Jivraj & Vrajlal.**—122, Nagdevi Street, Bombay 3.
- Kirtikumar & Co.**—80, Bhandari Street, Mandvi, Bombay 3.
- Oriental Engineering Co.**—25, Forbes Street, Fort, Bombay 1.
- P. Ratilal & Co.**—43, Dhanji Street, Bombay 3.
- Shah Engineering Stores.**—88, Nagdevi Cross Lane, Bombay 3.
- Supreme Industrial Works.**—196/K, Gaiwadi, Girgaum, Bombay 4.
- Vithal Purshotum & Sons Private Ltd.**—2nd Khetwadi Lane, Bombay 4.
- William Jacks & Co., Ltd.**—Hamilton House, Graham Road, Ballard Estate, Bombay 1.

SUGAR MILLS

- Belapur Company Limited.**—Brady House, 12, Veer Nariman Road, Fort, Bombay 1.
- Belwandi Pvt. Ltd.**—Industrial Assurance Building, Churchgate, Fort, Bombay 1.
- Brady, W. H., & Co. Ltd.**—12, Veer Nariman Road, Fort, Bombay 1.
- GODAVARI SUGAR MILLS LTD., THE.**—Fazalbhoy Building, Mahatma Gandhi Road, Fort, Bombay 1. Phone : 257321.
- Hindusthan Sugar Mills Ltd.**—51, Mahatma Gandhi Road, Fort, Bombay 1.
- Kolhapur Sugar Mills Ltd.**—Udyog Bhawan, Wittet Road, Bombay 1.
- Maharashtra Sugar Mills Ltd.**—Industrial Assurance Building, Churchgate, Fort, Bombay 1.
- PHALTAN SUGAR WORKS LTD., THE.**—Manufacturers of Sugar. Sangli Bank Bldg., 4th Floor, 296, Bazargate Street, Bombay 1. Phone : 253336-39. Grams : "RISINGSUN."

SULPHUR

- Pravin Brothers & Co.**—140, N. Master Road, Bombay 1.

SULPHURIC ACID MFRS.

- BARODA RAYON CORPORATION LTD.**—Manufacturers of Rayon Yarn, Sulphuric Acid, Anhydrous Sodium Sulphate & Carbon-D-Sulphide. Address : Great Western Bldg., 1st Floor, 130/132, Apollo Street, Bombay-1. Phone : 255881. Grams : "RAINBOW". Regd. Office : Udhna, Surat. Grams : "RAINBOW". Managing Agents : Gaekwad Chinai & Co. Pvt. Ltd.

SURGICAL COTTON WOOL & ALLIED MATERIALS

- PIMPRI SURGICAL DRESSING CO.**—19, Bank Street, Bombay 1. Mfrs. of "UNIVERSE" Brand Absorbent & Non-Absorbent Cotton Wool, Absorbent Gauze, Lint, Bandages etc. Equipped with latest Japanese imported machinery. Grams : "EMBEECORPO". Phone : 256536.

SURGICAL INSTRUMENTS & APPLIANCES

- Adair Dutt & Co., (India) Pvt. Ltd.**—Syndicate Bank Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
- ANDHRA SCIENTIFIC CO., LTD.**—Janmabhoomi Chambers, Fort Street, Bombay 1. Phone : 261540. Grams : "ASINSTS." Regd. Office & Works : Masulipatam, Andhra Pradesh.
- Bombay Surgical Co.**—New Charni Road, Bombay No. 4.
- DR. K. PATEL & SONS.**—Eruchshaw Building, 249, Dadabhoy Naoroji Road, Fort, Bombay-1 (BR). Phone : 263762. Direct Importers of E.N.T. Instruments & Appliances. Branches at : Uttam Niwas, 5-4-32/1A, Jawaharlal Nehru Road, Hyderabad 1 (A.P.). Phone : 45612.
- DIAMOND SURGICAL DRESSINGS WORKS, THE.**—381, Arthur Road, Bombay 11. Phone : 374636. Manufacturers of Surgical Dressings and Sanitary Towels.
- Eyres, E., & Co.**—Shyam Nivas, B. Desai Road, Bombay 26.

FAIR DEAL SURGICAL CORPORATION.—106, Bank of Baroda Building, Palton Road, Bombay-1. Grams : "FOLLOWER". Phone : 261340. (Surgical Instruments and Hospital Appliances.)

- Girdhar Javer & Co.**—Devkaran Mansion, 8, Gandhi Marg, Bombay 2.
- Gordhandas Desai Private Ltd.**—Kermani Building, Sir Phirozshah Mehta Road, Bombay 1.
- I.C.I. (India) Private Ltd.**—Crescent House, Wittet Road, Bombay 1.

IMPERIAL SURGICAL CO. PRIVATE LTD.—"India House," Opp. G.P.O., Fort, Bombay 1. Leading Manufacturers of Hospital Equipment. Importers of Surgical Instruments, Hospital Sundries, Catguts and Ligatures, Dental Instruments, Electro-Medical Equipment, Agents : "ISCOMED" Syringes and Needles. Grams : "IMPSURGCO." Phone : 26-3408. Branches at : Lucknow, New Delhi and Hyderabad.

INDIAN OXYGEN LTD.—Ghatkopar (Lal Bahadur Shastri Marg), Bombay 77-AS. Phones : 582641 (7 Lines), 582648, 582649 & 582782. Grams : "INDOXCO," Ghatkopar. Telex : 011-2391; Suppliers of Medical Apparatus for Anaesthesia, Analgesic & Oxygen Therapy and Medical Oxygen.

Jadavjee Goverdhandas & Co.—58, S. Gandhi Marg, Bombay 2.

Jagtiani, J. T.—6, Tulloch Road, Apollo Bunder, Bombay 1.

J. L. Morison Son & Jones (India) Ltd.—79, Dr. Annie Besant Road, Bombay 18.

Kanchanlal Maganlal & Co.—New Hanuman Lane, Bombay 2.

Surgical Goods

K. CHAPMAN & CO.

462, Sardar Vallabhbhai Patel Road, Bombay-4.

Phone : 351548.

Grams : "TRUSSWORKS."

Manufacturers of Hernia Trusses, Abdominal Belts, Deformity Appliances and Artificial Limbs.

- Mahomed Husain & Bros.**—106, Kansara Chawl, Kalbadevi, Bombay 2.
- Martin & Harris P. Ltd.**—Savoy Chambers, Wallace Street, Fort, Bombay 1.
- Modern Traders.**—457, S. V. Patel Road, Bombay 4.
- New Surgical Trading Co., The.**—9, Vithaldas Road, Bombay 2.
- Patrawali N. P., & Co.**—Fort Chambers, Hamam Street, Fort, Bombay 1.
- Reliance Electric & Hardware Stores.**—55, Krishna Bhuvan, Lohar Chawl, Bombay 2.
- Scientific & Industrial Supplies Corporation.**—17, Babu Genu Road, Bombay 2.
- Scientific Instrument Co., Ltd., The.**—Navsari Building, 240, D. N. Road, Bombay 1.
- Shekasa Engineering Co., Private Ltd.**—Noble Chambers, S. A. Brelvi Road, Bombay 1.
- Thermometers & Appliances Private Ltd.**—Sir Jamshed House, 166, Bohra Bazar Street, Fort, Bombay 1.
- Thomson & Taylor Ltd.**—119, Mahatma Gandhi Road, Bombay 1.
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- Visso Trading Co.**—462, S. V. Patel Road, Bombay 4.
- Whitten, F. C., & Co.**—Commissariat Building, 227, D. N. Road, Fort, Bombay 1.
- ZENITH SURGICAL CO.**—206/3C, Mangaldas Bldg., Mangaldas Road, Bombay-2. Grams : "INSTRUMENT". Dealers in Surgical, Scientific & Laboratory Equipment.
- Zill & Co.**—128, S. Gandhi Marg, Bombay 2.

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- S. K. SORABJI, & CO.**—Army & Navy Bldg., Mahatma Gandhi Road, Bombay 1. Phone : 252126. Accident, Marine & Engineering Surveyors, Assessors and Valuers.
- V. N. C. NARICHAINA (PRIVATE) LTD.**—P.O. Box 207-A, 22, Sir Phirozshah Mehta Road, Fort, Bombay (India). Phones : 266325, 265098 & 245329. Grams : "SURVEYLOSS."

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- Bombay Stationery Mart.**—Sir Phirozshah Mehta Road, Fort, Bombay 1.

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Grams: "ESSENCE." Phone: 318695. Importers, Exporters, Commission Agents and Manufacturers' Representatives.

Evergreen Corporation.—9/15, Picket Cross Road, P.O. Box No. 2733, Bombay 22.

Lawrence & Mayo (India) Private Ltd.—274, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

Mercantile Stationery Mart.—248, Abdul Rehman Street, Bombay 3.

Navlakhi & Co., J. V.—Kanta Terrace, Kalbadevi Road, Bombay 2.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Nagindas Master Road, P.O. Box No. 1909, Fort, Bombay 1. Phones: 251832 & 251839. Also at Calcutta, New Delhi, Madras & Baroda.

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DR. YAJNIK'S KEMICOLOR INDUSTRIES.—193/195, Dr. D. Nowroji Road, Bombay 1. Phone: 261192. Grams: "COLORCRAFT." Manufacturers of Conc Tallow. 1 kilo of Tallow replaces 8 kilos of Mutton Tallow.

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Shet, S. C. & Co., Ltd.—Raja Bahadur Mansion, 8, Hamam Street, Fort, Bombay 1.

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BHARAT TANK & STEEL CO., THE.—64, Podar Chambers, Parsi Bazar Street, Fort, Bombay. Phone: 318433. Grams: "GREND." Manufacturers of Steel & Stainless Steel Oil & Water Tanks, Chimneys, Pressure Vessels and Industrial Processing Equipment.

Emmes Metals Private Ltd.—138, Govt. Industrial Estate, Kandivli (West), P.B. No. 76660, Bombay 67 (NB).

Garlick & Co.—Haines Road, Bombay 11.

Herman & Mohatta (India) Pvt., B.R.—Mustafa Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

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Godown: 372501.

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Jairamdas Udyog Private Ltd.—157, Narain Dhuru Street, Bombay 3.

RELIANCE TRADING CO.—Vithal Savana Building No. 1, Lohar Street, Bombay 2. Phone: 314751. Grams: "STORE-TRADE." Engineering Stores, Hardware, Taps and Dies Merchants. Manufacturers of Canteen Embossed Metal tokens.

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Andheri Saw Mills & Timber Merchants.—S. V. Road, Andheri, Bombay 58.

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Bharat Timber Industries, Sayani Road, Bombay 25.

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Kantilal Bhalchand & Co.—63, Victoria Road, Bombay 10.

Kerbaji Bejanji & Sons.—51/A, Victoria Road, Bombay 10.

Lumber Industries Corporation.—124, Victoria Road, Bombay 27.

Madhoram & Sons.—136, Reay Road, Bombay 10.

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KIV TRADING CO.—17, 1st Parsiwada, Khetwadi, Bombay 4. Phone: 352180. Grams: "KIVGROUP." Manufacturers of Tin Containers, Screw Caps, Aluminium Seals, Pilfer Proof Caps, Anodised Novelities, Presentation Articles, Tin Seaming & Vial Closing Machines.

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Abdullahai Faizullahai Ltd.—62, Sarang Street, Bombay 3.
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Akson Tool & Steel Co., 119, Nagdevi Street, Bombay 3.

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VISHWA BHARATI TRADING CO.—45, Mint Road, Post Box No. 1052, Bombay 1. Phones: 266371 (All Depts.). Grams: "VIBHACO." Branch: G.P.O. Box 2628, Calcutta 1. Phone: 336680. Manufacturers of Welding Transformers of all types.

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Chunibhai Patel & Co., M.—10/12, Dr. Wilson Street, Bombay 4.

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EASTERN WATCH.—231-3, Dr. Dadabhoy Naoroji Road, Fort. Clocks and Watches, Electric Clocks Specialists. P.O. Box 263. Phone: 261962.

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Geneva Watch Co.—97, Abdul Rehman Street, Bombay 3.

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Maganbhai & Lallubhai.—184, Sheikh Memon Street, Bombay 2.

ORIENTAL WATCH & GRAMOPHONE CO., THE.—218E, Tulsi Pipe Road, Opp. Western Rly. Station, Dadar, Bombay 28. Phone: 452439. Grams: "TIKAM", Bombay-Dadar.

Packard Watch Co.—56, Abdul Rehman Street, Bombay 3.

Popular Watch Co.—12, Ranade Road, Bombay 28.

President Watch & Radio Co.—39, Dhanji Street, Bombay 3 (BR).

Precious Watch.—233, D. N. Road, Bombay 1.

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Sanghvi Watch Co.—170, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.

Swiss India Watch Co.—457, Kalbadevi Road, Bombay 2.

VOG & CO.—Empire Building, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 264068. Grams: "VOGSTRAPS." Manufacturers of quality Nylon Watch Straps, Bracelets in Stainless Steel & Rolled Gold & Clocks.

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DESAI TRADING CO.—189, Abdul Rehman Street, Bombay 3. Phone: Office: 321170. Grams: "MANPRAN". Manufacturers of "ARISTO" Straps & Bracelets.

Swiss Trading Corp.—14, Sadashiv Street, Bombay 4.

VOG & CO.—Empire Bldg., Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 264068. Grams: "VOGSTRAPS". Manufacturers of quality Nylon Watch Straps, Bracelets in Stainless Steel & Rolled Gold & Clocks.

WATER METERS

C. Champaklal & Co.—205, Nagdevi Street, Bombay 3.

CRESCENT TRADING CO.—48-50, Bhajipala Street, Bombay 3. Phones: 325140 & 328944. Grams: "WATERMETER." Dealers in: All kinds of Water Meters, Indian as well as Imported. Also oil flow meters, Steam flow meters, Hot water meters, etc., etc.

GENERAL TUBES PRIVATE LTD.—142/44, Nagdevi Street, Bombay-3. Grams: "GENTUBES." Phone Nos.: 322894, 328390. Manufacturers & Exporters: C.I. Pipes, Specials, Water Meters, Valves of various types, Steel Pipes & Fittings suitable for Rubber Linings for Special Chemical Industries. Pressure Vessels, Steam Separators and Heating Coils to Customers' Specifications.

Jivraj & Vrajilal.—122, Nagdevi Street, Bombay 3.

Kaycee Industries Ltd.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1.

Kadakhia Trading Corporation.—Sharin Castle, Bibijan Street, Bombay 3.

Richardson & Cruddas Ltd.—Byculla, Bombay 8.

Sharman Sons (Estd. 1949).—10, Nagdevi Street, Bombay 3.

TURNER, HOARE & COMPANY LIMITED.—Head Office: Wavell House, 15, Graham Road, Ballard Estate, Bombay-1. Phone: 262711 (8 lines). Cable: "ENDEAVOUR". Code: ACME & BENTLEY'S. TELEX: 2282. Offices: Delhi, Calcutta & Madras.

Vasi Shums & Co., Ltd.—Vasi Bldg., Nagdevi Street, Bombay 3.

Voltas Ltd.—Volkart Building, Graham Road, Ballard Estate, Bombay 1.

WATERPROOF PAPER MANUFACTURERS

KALPANA WATERPROOF PRODUCTS MFG. CO.—65/67, Dondia Street, Bombay-9. Phone: 322750. Dealers in Waterproof Bags, Hessian Paper Bags, Hessian Alkathene Bags.

Modern Waterproof Papers Mfg. Co.—Gaya Bldg., Meheralli Road, Bombay 3.

NEPTUNE'S

Waterproof Papers



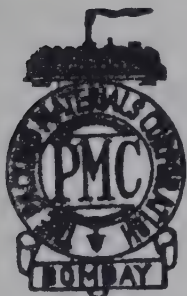
Range of manufacture: WATERPROOF PACKING PAPER ★ Waterproof Jute-lined Paper ★ Polythene-lined Hessian Paper and Bags ★ Polythene-lined Kraft Paper ★ Hessian-lined Paper ★ Bituminised Hessian ★ Waxed Paper Etc., Etc. ★ Roofing Felt.

Enquiries Solicited—**NEPTUNE WATER-PROOF MANUFACTURING CO.**

Office: Churchgate Chambers, New Marine Line Street, Bombay 1. Phone: 262298 Grams: "READYCASH".

Factory: 13, Kotkar Industrial Estate, Bombay 62.

THE PACKING MATERIALS CORPORATION



K. S. Gadgil Marg (East),
Off Gokhale Rd, BOMBAY
25 DD.

Manufacturers of:

Bituminised Waterproof Papers
Bituminised Paperlined Hessians & Bags
Bituminised Polythene-lined Hessians & Bags
Bituminised Polythene-lined Paper,
Waxed Papers
To I. S. I., Govt. and Buyer's Specn.

Grams: "SUNLIGHT".

Phone: 452824.

Warden & Co., Pvt. Ltd.—Quay Street, Bombay 10 DD.

WATERPROOF PAPER MANUFACTURING CO., PRIVATE LTD.—Alice Buildings, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 299292. Factory: (1) Anjirwadi, Mazagon, Bombay 10. Manufacturers of all kinds of Waterproof Packing Paper in Rolls for Packing Textile Goods, Machinery, etc.

WATERPROOFING PRODUCTS MFRS. & DEALERS

AMIRUDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay. Phones: 257982, 258633. Grams: "PILOTACE."

Daisy Trading Corporation.—Commercial Chambers, Meheralli, Road, Bombay 3.

Dwarkadas Velji Talpatriwala.—36, Issaji Street, Bombay 3.

GANGJI DAMJI & CO.—Talpatriwala, Makers of Waterproof Tarpaulins & Dealers in all kinds of Canvas. Tarpaulins available on hire. 34-36, Veer Vithaldas Chandan Street, (D'Souza Street), Masjid Bunder Road, Bombay-3. Phone: 326952. Grams: "POLINCOVER."

Gladstone Lyall & Co., Ltd.—21, Lansdowne Road, Apollo Bunder, Bombay 1.

Korji Damji.—Oosla Sayed Mukri Street, Bombay 9.

MORARJI PERAJ & CO., TALPATRIWALA.—138, Yusuf Meher Ali Road (Musjid Bunder Road), Bombay 3. Phone: 322352 (Office). Partner: Mr. J. S. Thakker. Resi.: Phone: 473944. Grams: "TALPATRI." Manufacturers of "ELEPHANT" Brand 100 per cent Waterproof Tarpaulin and Polythene and Paperlined Hessian Bags. Wholesalers Hessian Cloth, Canvas and Jute, Twine, Gunny Bags, Waterproof Paper and Eyelets etc.

Shalimar Tar Products (1935) Ltd.—16, Bank Street, Fort, Bombay 1.

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Phone: 322673 Office; 591412 Factory.

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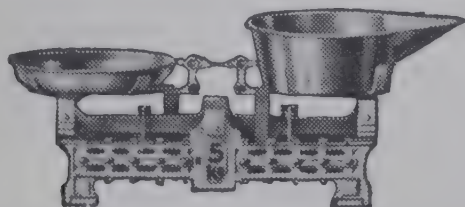
Sole selling Agents for: "SOEHNLE" Counter Scales.

Dealers in:—All kinds of Scales & Weights Metric Weights & Measures. SALTER Spring balances & German Counter Scales & Platform Weighing Machines.

Phone: 326309.

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E. G. KANTAWALLA.—203, Janjekar Street, Bombay-3. Phone : 322926. Manufacturers of Scales, Weights and Measures.
Eastern Scales Ltd.—Yusuf Building, Vir Nariman Road, Bombay 20.
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Batilbhai & Company Private Limited.—Regd. Office: Forbes Street, P. Box 190A, Fort, Bombay-1. (BR). Phones: 259611 (6 lines). Grams: "BATLIBOICO." Tele: 011-2284. City Branch: "BATLIBOI HOUSE," 59/61, Nagdevi Cross Lane, Bombay-3 (BR). Branches: Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, Indore, Jaipur, Kanpur, Ludhiana, Madras, New Delhi, Patna, Secunderabad, Vijayawada. Associate: Bangalore 2. Resident Representatives: Bhopal, Bhubaneswar, Raipur, Rajkot.

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Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay 1.

Datson Raviraj & Co. (Private) Ltd.—43, Tamarind Street, Fort, Bombay 1.

Fida Traders.—97, Dhoboo Street, Bombay 3 (BR).

Hindustan Engineering Co.—25, Ropewalk Street, Rampart Row, Fort, Bombay 1.

Industrial Gases Ltd., The.—Sind Seva Samati Nagar, Sion Koliwada, Bombay 22.

INDIAN OXYGEN LTD.—Ghatkopar (Lal Bahadur Shastri Marg), Bombay 77-AS. Phones: 582641 (7 lines), 582648, 582649 & 582782. Grams: "INDOXCO," Ghatkopar. Telex: 011-2391; Suppliers of Oxy-Acetylene Welding & Cutting Equipment, Rods & Fluxes, Manual Arc Welding Transformers, Manual Arc Welding Electrodes, Manual Arc Welding Accessories, Automatic & Semi-automatic Arc Welding Equipment and Consumables.

James Finlay & Co., Ltd.—Chartered Bank Bldg., Cannon Road, Bombay 1.

JOSEPH LESLIE & CO.—Engineers, Welding Accessories and equipment for Gas & Electric Welding, 105, Apollo Street, Bombay 1. Phone: 251608. Grams: "LEONINE."

JEYEMS ENGINEERING CO.—Great Western Bldg., 1st Floor, 130-132, Apollo St., Fort, Bombay-1. Engineers, Machinery Merchants & Manufacturers' Representatives, Direct Importers of Machine Tools, Wood Working Machinery, Sheet Metal Working Machinery, Welding Equipment, Foundry Equipment etc. Phone: 255891. Grams: "JAYEMS."

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Radiant Electric & Machinery Co.—Sir Vithaldas Chambers, Bruce Street, Bombay 1.

STANDARD EQUIPMENT CORPORATION.—G.P.O. Box No. 914, 19, Bank Street, 2nd floor, Fort, Bombay 1 BR. Phone: 252625. Dealers in Welding Electrodes and Accessories.

TRADE (INDIA) CORPORATION.—58, Mohamedali Road, Bombay-3. Phone: 324557. Grams: "TINDICO". Electric & Gas Welding Rods and Equipment, Safety wears, Hand Gloves and Aprons, etc.

TURNER, HOARE & COMPANY LIMITED.—Head Office: Wavell House, 15, Graham Road, Ballard Estate, Bombay-1. Phone: 262711 (8 lines). Cable: "ENDEAVOUR". Code: ACME & BENTLEY'S. TELEX: 2282. Offices: Delhi, Calcutta & Madras.

United India Engineering Company.—Commerce House, N. Master, Fort, Bombay 1.

Universal Agencies.—250, Reay Road, Opp. Railway Bridge, Bombay 10.

Universal Industrial Corporation.—86, Kumbharwada 4th Lane, Bombay 4.

VISHWA BHARATI TRADING CO.—45, Mint Road, Post Box No. 1052, Bombay 1. Phones: 266371 (All Depts.). Grams: "VIBHACO." Branch: G.P.O. Box No. 2628, Calcutta 1. Phone: 336680. Mfrs. of Welding Transformers, Acetylene & Oxygen Gas Generators and Accessories.

Volts Ltd.—Strand House, Graham Road, Ballard Estate, Bombay 1.

WELDING MATERIAL TRADERS.—48, Noor Manzil, 6th Kumbharwada, Bombay-4. Phone: 331645. Dealers in all kinds of accessories for gas and electric welding and equipment.

WHARTON, H. W., & CO., PRIVATE LTD.—Alice Buildings, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 299292.

William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay 1.

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VISHWA BHARATI TRADING CO.—45, Mint Road, Post Box No. 1052, Fort, Bombay 1. Phones: 266371 (All Depts.). Grams: "VIBHACO." Branches: G.P.O. Box No. 2628, Calcutta 1. Phone: 336680. Manufacturers of Welding Rectifiers of various capacities.

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WINE AND SPIRIT MERCHANTS

Great Western Stores.—Standard Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

Herbertsons, Ltd.—Ewart House, Bruce Street, Fort, Bombay 1.

National Stores.—Sitaram Building, D. Naoroji Road, Bombay 1.

MOHAN BROS.—9, Ismail Building, Flora Fountain, Bombay 1. Phone: 252417. Wine & Spirit Imports.

Nowrojee Ardaseer & Sons.—24, Dalal Street, Fort, Bombay 1.

Oomrigar, D. C., & Co., Pvt. Ltd.—f54, Abdul Rehman Street, Bombay 2.

PHIPSON & CO. LTD.—No. 1, Bakehouse Cross Lane, Fort. Telephone: 253996-1. Telegrams: "PHIPSON," Bombay.

Shah & Co.—Sitaram Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

Spencer & Co., Ltd.—Spencer's Building, Forjett Street, Bombay 26.

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Tele: Office : 378898
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374402

Show room & Works : 378441
372327
Residence : 379353
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Branch :—182, Nainappa Naick Street, Madras 3.

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*We also undertake Brass, Copper, M. Steel, Aluminium
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Phones : 324008 & 327430, Works : 592636, 593786, 593787,
593788.

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Joshi Industrial Corporation.—"Giriraj," Sant Tukaram Road,
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Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta
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BOMBAY WIRE ROPES LTD.—15A, Horniman Circle, Bombay
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Bombay 3.

Eastern Stores & Trading Co. Ltd.—115, Nagdevi Street, Bombay 3.
Eastern Trading & Engineering Co.—Alice Building, 3rd Floor,
339, D. N. Road, Bombay 1.

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State Governments.

ESOOFALI ESMAILJI KARACHIWALLA & CO.—43-45, Bhan-
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Workshop Phone : 261261. Grams : "SLING." Shipchandlers
and Stockists of : Wire Ropes, Manila Ropes, Hardware, Ship
Chains, Pulley Blocks, Shackles, Thimbles, Rope Clamps
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Coal Tar, Coal Pitch Felts, Marine, Glue, etc. Dealers in :
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HEPTOOLA NOORUDDIN & CO. (Estd. 1910).—154, Nagdevi
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Stockists of and Dealers in Marine—Mill Gin—Industrial
Stores.

James Finlay & Co., Ltd.—Chartered Bank Bldg., Cannon Road,
Bombay 1.

Jivraj & Vrajlal.—122, Nagdevi Street, Bombay 3.

Modi & Modi & Co.—16, Hamam Street, Fort, Bombay 1.

Vasi Shums & Co. Private Ltd.—Vasi Building, Nagdevi Street,
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William Jacks & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Bombay 1.

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Batilbol & Company Private Limited.—Regd. Office: Forbes Street, P. Box 190A, Fort, Bombay-1 (BR.). Phones: 259611 (6 lines). Grams: "BATLIBOICO." Tele: 011-2284. City Branch: "BATLIBOI House," 59/61, Nagdevi Cross Lane, Bombay-3 (BR.). Branches: Ahmedabad, Calcutta, Coimbatore, Delhi, Ernakulam, Indore, Jaipur, Kanpur, Ludhiana, Madras, New Delhi, Patna, Secunderabad, Vijayawada. Associate: Bangalore 2. Resident Representatives: Bhopal, Bhubaneswar, Raipur, Rajkot.

BOMBAY HARDWARE TRADERS.—79, Narayan Dhuru Street, Masjid Bunder Road, Bombay 3. Phone No. 327153. Grams: "SISTACHAR." Authorised Distributors for 'John Baker', 'Hindustan' Scissors brands Steel Files, Nettlefolds Screws, Bolts & Nuts, Every kind of Saws, Measuring & Precision Tools, and other Hardware materials.

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Evergreen Corporation.—Lohar Chawl, R. Champsi Path, Bombay 2.

Hemant Tools Trading Co.—33, Bibijan Street, Bombay 3.

Hemco Corporation.—308, P. Nariman Street, Bombay 1.

HINDUSTAN TOOLS & HARDWARE MART.—126, Lohar Chawl, Bombay 2. Phone: 20666. Grams: "FAKIRSIAI". Importers, Stockists & Govt. & Rly. suppliers of General Engineering, Precision, Measuring & Carpenter tools. Also suppliers to Technical Colleges & Institutions.

Hindustan Engineering Co.—25, Ropewalk Street, Fort, Bombay 1.

Jairamdas & Sons.—163, Narain Dhuru Street, Bombay 3.

James Tool & Hardware Co.—109-111, Nagdevi Street, Bombay 3.

JAYEMS ENGINEERING CO.—Great Western Bldg., 1st Floor, 130-132, Apollo St., Bombay-1. Engineers, Machinery Merchants & Manufacturers & Representatives, Direct Importers of Machine Tools, Wood Working Machinery, Sheet Metal Working Machinery, Welding Equipment, Foundry Equipment, etc. Phone: 255891. Grams: "JAYEMS."

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

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Patna, Patna University, Rae Bareilly, Raipur, Rajanand-
gaon, Ranchi, Sadhaura, Haryana, Satna, Shahjahanpur,
Shahjahanpur City, Sitapur, Ukhra, Varanasi, Abohar,
Ajmer, Andal, Asansol, Bansdih, Bombay-Parel, Bombay-

Kalina, Calcutta Chittaranjan Avenue, Calcutta, Jodhpur
Park, Calcutta-Kasba, Gaura-Barhaj, Gomoh, Gorakhpur
University, Guntur, Jalaun, Kashipur, Katrasgarh, Kha-
maria, Kumardhubi, Madras, Marhowrah, Nalhati, Nark-
hed, North Barrackpore, Rohtak, Sadhaura, Shehra, Sili-
guri, Sindi, Ernakulam, Dildarnagar, Kapurthala, Rudra-
pur, Malihabad, Varanasi Sanskrit University, Cuttack,
Palia Kalam.

CASH OFFICES

Agra Hotel Clerks Shiraz, Agra University, Bhagalpur
University.

FOREIGN EXCHANGE

Business Transacted. Correspondents all over the
world. Safe deposit lockers available at several branches.

THE AMERICAN EXPRESS COMPANY, INC.

(Incorporated in the U.S.A. with limited liability).

International Bankers, Travel Agents.

HEAD OFFICE : 65, Broadway, New York, N.Y. CAPITAL :
(Paid-up) : U.S. \$6,000,000. SURPLUS and RESERVES :
U.S. \$25,496,000. LONDON OFFICE : 25, Abchurch Lane,
London E.C. 4. BOMBAY OFFICE : 364, Dr. Dadabhai
Naoroji Road, Fort, Bombay 1. GRAMS : "AMEXCO".
Phone Nos. 25-5021/4, (Telex No. 584. Calcutta Office :
21, Old Court House Street. Grams : "AMEXCO".
Phone No. : 2862/81, Telex No. 574. New Delhi Office :
Hamilton House, Block A, Connaught Place, New Delhi.
Grams : "AMEXCO". Phone No. : 43553, Telex No. 587.
Branches in all the principal cities throughout the world.

BANK OF BARODA

Registered Office : *MANDVI, BARODA†

LIST OF BRANCHES

Andhra Pradesh : Guntur, *Hyderabad, Kakinada,
Pedanandipadu, *Secunderabad, Vijayawada, Visakha-
patnam, Yeditha.

Assam : Gauhati, Shillong.

Bihar : Dhambad, Golmuri (Jamshedpur), Jamshedpur,
*Patna, Ranchi, Ramgarh Cantt., Muzaffarpur, Chakulia.

Delhi : Chanakyapuri, Delhi (Chandni Chowk), *Delhi
(Model Town), *Delhi (Sadar Bazar), *Delhi (Shakti-
nagar), New Delhi (Asaf Ali Road), New Delhi (Con-
naught Circus), *New Delhi (Greater Kailash No. 1),
New Delhi (Karol Bagh), New Delhi (Paharganj), *New
Delhi (South Extension No. 1).

Goa : Anjuna, Benaolim, Cuncolim, Cortalim, Guirim,
Majorda, Morgim, *Margao, *Panaji, Vasco-da-Gama.

Gujarat : Abrama, *Ahmedabad (Ambawadi), *Ahme-
dabad (Asarwa), *Ahmedabad (Bhadra), Ahmedabad
(Dariapur), *Ahmedabad (Delhi Chakla), Ahmedabad
(Dhanlaxmi Market), *Ahmedabad (Ellis Bridge), *Ahme-
dabad (Gandhi Road, Main Branch), *Ahmedabad (Geeta
Mandir Road), *Ahmedabad (Girdharnagar), Ahmedabad
(Kalupur), *Ahmedabad (Maninagar), *Ahmedabad (Nav-
rangpura), Ahmedabad (Panchkuva), Ahmedabad (Raipur
Chakla), *Ahmedabad (Relief Road), *Ahmedabad (Sabar-
mati), Ahmedabad (Sarangpur), *Ahmedabad (Sardar
Patel Colony), Ahmedabad (Swami Narayan Temple
Road), *Ahmedabad (University Campus), Alipore, Anjar,

* Safe deposit Lockers provided.

† Mobile Bank is operated in the surrounding villages.

*Amalsad, Ambaliyasan, *Amreli, Anand, Anklav, Ankleshwar, Ashtagam Khadsupa Boarding, Bahadarpur, Balisana, Bardoli, Baroda (Alkapuri), Baroda (Industrial Estate), Baroda (Khanderao Market), *Baroda (University Campus), Baroda (Pratapnagar), Baroda (Raopura), *Baroda (Sayajigunj), Baroda (Wadi), Baroda (Laheripura New Road), Baroda (Kothi), Bayad, Bhadrar, Bhaili, Bhatinagar (Industrial Estate), Bhavnagar, *Bhavnagar (Krishnanagar), Bhilad, Bhuj, *Billimora, Bodeli, Bodhan, Borsad, Broach, *Bulsar, *Cambay, Chhani, *Chikhli, *Dabhoi, Dehgam, Dhansura, Dhinoj, Dholka, Dhuvaran, *Dwarka, Fertiliser Nagar, *Fort Songadh, Godhra, Gojaria, Harij, Jambusar, Jamnagar (Digvijay Plot), *Jamnagar (Ranjit Road), Jotana, *Junagadh, Kadi, Kali, *Kalol, Kandla (Free Trade Zone), *Kapadwanj, Karadi, Kavehelia, *Karjan (Miyagam), Kheralu, Khergam, *Kosamba, Koyali, Ladol, *Madhi, *Mansa†, *Maroli Bazar, Mehlav, *Mehsana, *Mithapur, *Morvi, Mota, Moti Kunkavav, *Nadiad†, Nakhatrana, Narsanda, *Navsari (Panch Hatdi), *Navsari (Station Road), *Pelej, Pardi, *Patan†, Patri, Pethapur, *Petlad, Porbandar, Radhanpur, *Rajkot (Pradyuman Nagar), Rajkot (Jaganath Area), Rajkot (Industrial Estate), Rajpardi, Rajkot (Kolki), *Rajpipla, *Rander, Rankuwa, Ranoli, Ranpur, Ranuj, Ras, Rayam, Sanjan, *Sankheda, Sarbhon, Savli, Savarkundla, Sayan, Shahpur, *Sidhpur, Surat (Athwa Lines), *Surat (Kanpith), Surat (Navsari Bazar), Surat (Parsi, Sheri) Surat (Salabtpura), Surat (Vania Sheri), Surendranagar, Talod, Torna, Udhna, Ukai, *Umbargaon, Umreth, Unjha, Utram, Uttarsanda, Upleta, Vadali, Vadnagar, Vankaner, Vapi, *Vasad, Veraval, Vijapur *Viramgam, *Virsad, *Visnagar, Vyara, Yeditha.

Haryana and Punjab : Amritsar, *Chandigarh, (Sector 17-B), Chandigarh (Sector 22-C), Faridabad, Gurgaon, *Jullundur, *Ludhiana (Chaura Bazar), Ludhiana (Industrial Area).

Kashmir : Srinagar.

Kerala : Alwaye, Cochin, Ernakulam, *Irinjalakuda, Kalamassery, Trivandrum, Quilon.

Madhya Pradesh : *Bhilai, *Bhopal, Gwalior, Indore (Industrial Estate), *Indore (Sitalamata Bazar), *Indore (Siyaganj), Jabalpur, Raipur, Ujjain.

Tamil Nadu : Ambattur, Coimbatore, Lalgudi, Madras (E.C. Street), Madras (Mount Road), *Madras (Mylapore), *Madras (North Beach Road, Main Branch), Madras (Sowcarpet), Madras (Theagarayanagar), Madurai, Manachanallur, Melattur, Nambiyur, Perundurai, Talaig-nair, *Tanjore, *Tiruchirapalli, Veppathur.

Maharashtra : Ahmednagar, Akola, Amravati, Aurangabad (Jalgaon), Ballarpur, *Bombay (Andheri), *Bombay (Backbay Reclamation), Bombay (Ballard Estate), *Bombay (Bandra), Bombay (Bori Bunder), *Bombay (Borivli), Bombay (Bullion Hall), Bombay (Byculla), Bombay (Churchgate), *Bombay (Colaba), Bombay (Crawford Market), Bombay (Dadar), *Bombay (Fort, Main Branch), *Bombay (Gamdevi), *Bombay (Ghatkopar), Bombay (J. Tata Road), *Bombay (Khand Bazar), Bombay (Khar), *Bombay (Khar Pali Road), *Bombay (Khetwadi), Bombay (Malad), Bombay (Mandvi), Bombay (Mangaldas Market), *Bombay (Marine Drive), *Bombay (Matunga, Chandavarkar Road), Bombay (Matunga, Podar College), *Bombay (Mulund), *Bombay (Nepean Sea Road), **Bombay (Opera House), Bombay (Princess Street), Bombay (Saki Naka), Bombay (Santacruz), *Bombay (Shivaji Park), *Bombay (Sion), Bombay (Sir P. M. Road), *Bombay (Thakurdwar),

Bombay (Vile Parle, East), *Bombay (Vile Parle, West), *Bombay (Wadala), *Bombay (Zaveri Bazar), Chandra-pur, *Deolali, Dhulia, Gholwad, Ichalkaranji, Jalgaon, Kalyan, Karanja, Kolhapur (Shahupuri), Kolhapur (Shivaji Chowk), Kopergaon, Lonand, *Mahad, Maji-wada, Malegaon, Miraj, Modnimb, Murtizapur, Masoli, *Nagpur (Dharam Peth), *Nagpur (Gandhi Baug), Nagpur (Sitabuldi), *Nandurbar, Nasik City, Nasik Road, Pandharpur, Panvel, *Pen, *Poona Camp, *Poona City (Karve Road), *Poona City (Laxmi Road), *Poona City (Shivajinagar), *Poona City (Station Branch), *Sangamner, Sangli, Satara, Sholapur, Sinnar, *Thana, Ulhas-nagar, *Yeotmal.

Mysore : *Bangalore (Kempegowda Road), Bangalore (Malleswaram), Bangalore (St. John's Medical College Campus), Bedkihal, *Belgaum, Mangalore, Mysore.

Orissa : Barbil, Cuttack, *Rourkela.

Punjab : Patiala.

Rajasthan : *Ajmer, Bikaner, *Jaipur (M.I. Road), Jaipur (Power House Road), Jaipur (Tripolia Bazar), *Jodhpur, *Kota, Mahua, Shri Mahavirji, Udaipur.

Tamil Nadu : Madras (S.I.E.T. College Campus), Uthu-Kuli.

Uttar Pradesh : Agra, Allahabad, Bareilly, Dehra Dun, Fatehganj (West), Ghaziabad, Gorakhpur, *Kanpur (Birahana Road), Kanpur (Latouche Road), Lucknow, Lucknow (Aminabad), Merut Cantt., Moradabad, Saharanpur, Varanasi.

West Bengal : Asansol, Bagnan, Berhampore, *Calcutta (Ballygunj), *Calcutta (Bhowanipore), Calcutta (Bourne Road), Calcutta (Burra Bazar), Calcutta (Chittaranjan Avenue), Calcutta (College Street), *Calcutta (Dum Dum), *Calcutta (India Exchange, Main Branch), Calcutta (M.G. Road), Calcutta (Patipukur South Dum Dum), Calcutta (Sealdah), *Calcutta (Sham Bazar), Calcutta (Lake Market), Calcutta (Upper Chitpur Road), Durgapur, Howrah, Sodepur.

FOREIGN BRANCHES

United Kingdom : London, Southhall, Middlesex.

East Africa : *Jinja (Uganda), *Kampala (Uganda), *Kisumu (Kenya)†, *Mbale (Uganda), *Mombasa (Makadara Road, Kenya), *Mombasa (Salim Road) (Kenya), Nairobi (City Square) (Kenya), *Nairobi (Coryndon Street) (Kenya), Thika (Kenya).

East Pakistan : Narayangunj.

Fiji Islands : Ba (Varoka), *Lautoka†, Suva.

Mauritius : Port Louis†.

Guyana : Georgetown.

South America : Guyana (New Amsterdam).

THE BANK OF TOKYO, LIMITED

Incorporated in Japan.

Liability of Shareholders Limited.

Head Office : Nihombashi, Hongokucho, Chuoku, TOKYO (Japan); 31, Domestic Offices; 30 Overseas Offices; 18 Overseas Representative Offices; 8 Affiliate Banks; **Bombay Office :** "Jeevan Prakash", Sir Phirozshah Mehta Rd., Bombay-1 (BR). **Calcutta Office :** 2, Brabourne Road, Calcutta 1. **New Delhi Office :** "Jeevan Vihar," 3 Parliament Street, New Delhi 1.

* Safe Deposit Lockers are provided.
surrounding villages.

** Safe Deposit Lockers at our Queen's Road premises.

† Mobile Bank is operated in the

THE BOMBAY MERCANTILE CO-OPERATIVE BANK LIMITED

(Estd. June 1939)

HEAD OFFICE: 78, Mohamedali Road, Bombay 3.
Phone: 325961 (5 Lines)

AUTHORISED CAPITAL	..	Rs.	40,00,000
ISSUED, SUBSCRIBED AND PAID-UP CAPITAL	..	..	19,99,000
RESERVE AND OTHER FUNDS	..	..	14,03,000
DEPOSITS	..	..	7,29,84,000
CASH AND INVESTMENTS IN GOVT. SECURITIES	..	..	5,43,21,000
WORKING CAPITAL	..	..	8,28,32,000

Annual Turnover exceeds Rupees Two Hundred Three Crores (Government Audit Classification "A").

CHAIRMAN:—Khan Bahadur Shaikh Mohamedally Allabux.

MANAGING DIRECTOR:—Zain G. Rangoonwalla, J.P.

BRANCHES:—Jariwalla Building, Null Bazar, Bombay 3. Phone: 332778. 294, Abdul Rehman Street, Bombay 3. Phone: 325961 (5 Lines). Hanjer Cinema Bldg., Jogeshwari West, Bombay-60. Phone: 573793. 12, 18, Khara Tank Road, Bombay-3. Phone: 331841. Opp. Byculla Rly. Station, Bombay 27. Phone: 370889.

Seasonal Sub-Office: Mohamed Haji Saboo Siddick Musafirkhana, Carnac Road, Bombay 1.

Gujarat Branches: Fuvara, Gandhi Road, Ahmedabad 1. Sub-Office: Tilak Road, Near Zakaria Mosque, Ahmedabad-1.

All kinds of Banking Business Transacted.

THE BRITISH BANK OF THE MIDDLE EAST

(Incorporated in England by Royal Charter 1889).

HEAD OFFICE:—7, King William Street, London E.C.4.

AUTHORISED CAPITAL	..	£ 2,500,000
ISSUED AND FULLY PAID-UP	..	£ 2,500,000
RESERVE FUND	..	£ 5,000,000

BOARD OF DIRECTORS:—C. E. Loombe, C.M.G. (Chairman); Sir Geoffrey Eley, C.B.E. (Deputy Chairman); M. G. Carruthers, M.C.; Sir Charles Denman, Bt., M.C.; Sir Alec Kirkbride, K.C.M.G., C.V.O., O.B.E., M.C.; Sir John Stevens, K.C.M.G., D.S.O., O.B.E. T.D.; Sir Roger Stevens, G.C.M.G.; G. P. Stubbs; Lord Trevelyan, G.C.M.G., C.I.E., O.B.E.; Sir Michael Turner, C.B.E.; C. F. Warr, O.B.E.

General Manager: A. Macqueen.

Deputy General Manager: P. L. Sandeman.

Branches:—INDIA — Bombay; JORDAN — Amman; LEBANON — Beirut (4 Branches), Tripoli; SAUDI ARABIA — Alkhobar, Dammam, Jeddah; SHEIKHDOM OF BAHRAIN — Manama, Ghudaibiya, Hidd, Muharra; REPUBLIC OF SOUTHERN YEMEN — Aden; STATE OF KUWAIT — Kuwait (6 Branches); SULTANATE OF MUSCAT AND OMAN — Muscat, Muttrah; SHEIKHDOM OF QATAR — Doha; TRUCIAL STATES — Sheikhdom of Abu Dhabi — Abu Dhabi; Sheikhdom of Dubai — Dubai, Al Battin, Deira; Sheikhdom of Ras al Khaimah — Ras al Khaimah; Sheikhdom of Sharjah — Khor Fakhan, Sharjah; SWITZERLAND — Geneva; TUNISIA — Tunis.

Bombay Branch:—314, Dr. Dadabhai Naoroji Road, Fort, Bombay-1. Manager: R. R. Rees.

ASSOCIATED COMPANIES

THE BANK OF IRAN AND THE MIDDLE EAST, Teheran (with 5 sub-branches) and Khorramshahr, Iran.

BANK OF NORTH AFRICA, Tripoli, Benghazi and Mersa Brega, Libya.

SUBSIDIARY COMPANIES

THE BRITISH BANK OF THE MIDDLE EAST (Morocco) S.A., Casablanca and Tangier.

B.B.M.E. NOMINEES LIMITED.

A member of the Hong Kong Bank Group.

CANARA BANK

(Established in 1906). REGD. OFFICE:—Mangalore, South Kanara. Administrative Office: Bangalore. Foreign Departments in Bombay, Calcutta, Madras and New Delhi.

CENTRAL BANK OF INDIA

(Established 1911)

REGISTERED OFFICE: Mahatma Gandhi Road, Fort, Bombay 1.

Branches and Pay Offices in all important Commercial Centres of India.

LONDON BRANCH:

Orient House, 42-45, New Broad Street, London E.C. 2.

NEW YORK AGENTS:

Morgan Guaranty Trust Co. of New York.
The Chase Manhattan Bank.

THE CHARTERED BANK

(INCORPORATED IN ENGLAND BY ROYAL CHARTER 1853).

Wholly owned subsidiaries: The Eastern Bank Ltd., The Chartered Bank of London, San Francisco.

Associated companies: Commercial Bank S.A.L., Libya; Irano British Bank, Iran; Conrad Hinrich Donner, West Germany; Amsterdamse Crediet Maatschappij N.V.; Bank of South Arabia Ltd., Aden.

AUTHORISED CAPITAL	..	£ 10,000,000
CAPITAL STOCK ISSUED	..	£ 8,470,000
RESERVE FUND	..	£ 13,882,500

Head Office: 38, Bishopsgate, London, E.C. 2.

Court of Directors: William George Pullen (Chairman); Sir Charles Watt Miles, O.B.E.; The Rt. Hon. Anthony Perrinot Lysberg Barber, T.D., M.P.; Sir Paul Benthall, K.B.E.; Kenneth Macrae Campbell, M.B.E.; Sir Harry Greenfield, C.S.I., C.I.E.; The Rt. Hon. The Earl of Inchcape; Ian Lilburn MacEwen; Clifford Waite, C.M.G.; Sir Arthur Atkinson Bruce, K.B.E., M.C.; William Ewing Eadie, C.A.; Donald Wescombe Hawkins; Roger Leighwood; John Mellor Pattinson, C.B.E.; Derek Lister d'Anyers Willis.

Chief General Manager: Stafford Northcote.

General Managers: A. T. Hobbs, M.B.E., R. A. S. Lane, M.C., John Wilson, C.B.E.

Assistant General Managers: P. H. Taggart, J. Russell.

Secretary: E. Hampden Smith.

Chief Manager in India (Calcutta): A. A. Norrie.

Calcutta Branch: 4, Netaji Subhas Road, Calcutta 1. Manager: R. E. S. Prive.

Telegraphic Address: "CHARTABANK", Telex 281; Phone: 226902 (6 Lines).

Calcutta, Chowringhee : 31, Chowringhee Road, Calcutta 16.

Gariahat : 26/4, Hindustan Park, Gariahat, Calcutta 29.

Jorasanko : 6, Vivekananda Road, Jorasanko, Calcutta 7.

Shyambazar : 21A, R. G. Kar Road, Shyambazar, Calcutta 4.

Cossipore : 7213, Kashi Nath Dutta Road, Calcutta 36.

Bombay Branch : 25, Mahatma Gandhi Road, P.O. Box No. 558, Bombay.

Manager : D. R. Chapman.

Telegraphic Address : "CHARTABANK", Telex 230 ;
Phone : 257198 (10 Lines).

Andheri : 'Rayfreda', junction of Andheri Kurla Road and Mahakali Caves Road, Chakala, Andheri East, Bombay-69.

Chowpatty : 'Shree Pant Bhuvan', (Dadajee Dhackjee Bldg.) Sandhurst Bridge, Bombay-7 W.B.

Ghatkopar : 170, Ashok Derasar Lane, Ghatkopar (East), TPS II, Bombay 77.

Worli : Vaswani Chambers, 264-265, Dr. Annie Besant Road, Bombay 18.

Amritsar Branch : Hall Bazar, Amritsar.

Cochin Branch : VI/37, Calvetty Road, Fort, Cochin.

Calicut Branch : 7/575-A, Town Hall Road, Calicut 1.

New Delhi Branch : 17, Parliament Street, New Delhi 1.

Delhi Branch : 29, Faiz Bazar, Delhi 7.

Kanpur Branch : 16/49, Mahatma Gandhi Road, Kanpur.

Madras Branch : 371, Esplanade Row, Madras.

Vasco da Gama Branch : Swatantrya Park, Vasco da Gama, Goa.

REPRESENTATIVE OFFICE

The Chase Manhattan Bank, N. A.

CAPITAL : \$624,218,675 ; **SURPLUS, UNDIVIDED PROFITS and RESERVE for CONTINGENCIES** : \$747,966,265 ; **RESOURCES OVER** : \$19,265 million ; **HEAD OFFICE** : 1 Chase Manhattan Plaza, New York ; **BOMBAY REPRESENTATIVE OFFICE** : New India Assurance Building, Mahatma Gandhi Road, Post Box 1961, Telephone : 252759.

DAXINI BRAHMAN CO-OPERATIVE BANK LTD., BOMBAY

Jayant Nivas, 163-165, Jagannath Shankar-Sheth Road, Girgaum, Bombay-4.

Branch Office : Bhagirathi Nivas, N. C. Kelkar Road, Dadar, Bombay 28. Membership open to all above the age of 18, residing in Greater Bombay and area upto and inclusive of Virar & Kalyan. Deposit account can be opened by anybody. Advances are granted to members against Gold Ornaments, Silver, Government and other Trustee Securities, Life Insurance Policies, Shares of Jt. Stock Companies, Goods, Property etc. Advances against Gold & Silver only are granted to Nominal Members. Transacts all kinds of Banking business. Phones : Head Office : 355738, Branch : 451814.

DENA BANK

(Incorporated in Bombay under the Indian Companies Act on 26th May, 1938)

AUTHORISED CAPITAL	..	RS. TWO CRORES.
SUBSCRIBED & PAID-UP CAPITAL.	RS. ONE CRORE & TWENTY-FIVE LAKHS.	
RESERVE FUND	.. ..	RS. ONE CRORE & SIXTY LAKHS.

TOTAL DEPOSITS EXCEED	RS. ONE HUNDRED & TWENTY CRORES.
WORKING FUNDS EXCEED	RS. ONE HUNDRED & THIRTY CRORES.
NUMBER OF ACCOUNTS EXCEED.	FIVE LAKHS & NINETY THOUSAND

BRANCHES :

247 in 14 States and 58 Safe Deposit Vaults.

MAHARASHTRA — BOMBAY : *Horniman Circle (H.O.), Andheri, Bandra, *Ballard Estate, *Bhandup, Bhat Bazar, Bhayander, Bhuleshwar, *Borivli, Chembur, *Colaba, Dadar-Khodadad Circle, *Dadar-Ranade Road, *Ghatkopar, Goldeval, Goregaon, Gulalwadi, *Jogeshwari (East), Jogeshwari (West), *Juhu (Vile Park), Kalbadevi, *Kandivli, Khar-Ghodbunder Road, Khar-Linking Road, Kharek Bazar, Kurla, Mahim, *Malabar Hill, *Malad (E), *Malad (W), Mandvi, *Matunga, *Mulund, Nagdevi, *New Gamdevi, Parel, *Pedder Road, Sachivalaya Corner, Sandhurst Bridge, *Santa Cruz (E), *Santa Cruz (W), *Share Bazar, Sion, *Tardeo, Thakurdwar, Thana, *Vile Parle (E), *Vile Parle (W), *Versova, *Wadala, Worli, *Zaveri Bazar, Ahmednagar, Aurangabad, Baramati, Erandol, Gondia, Jalgaon, Kagal (Kolhapur Dist.), Kolhapur, *Malegaon, Manmad, Nagpur, Nanded, Nandurbar, NASIK : (2 Branches), Ravalgaon, Yeola, POONA : (4 Branches*), Sholapur, Walchandnagar.

GUJARAT — AHMEDABAD : Aswara, Astodia Chakla, *Delhi Chakla, *Ellis Bridge, *Gandhi Road, Manek Chowk, Maninagar, Maskati Market, Narayanpura, Navrangpura, *Relief Road, Sarangpur, *Saraspur, Shahpur, Adas, Adipur (Kutch), Amreli, *Anand, Ankleshwar, Bagasra, Balambha, Balasinor, Bantwa, Bardoli, BARODA : (3 Branches), Barwala, *Bhavnagar, Bhuj (Kutch), Billimora, *Borsad, *Botad, Broach, *Bulsar, Buhari, Cambay, Chanasma, Chorwad, Dakor, Damnagar, Dhank, Dhari, *Dharmaj, Dhasa, Dhoraji, Dhrangadhra, Gandevi, Godhra, Gondal, Jalalpore, Jamkhandorna. **JAMNAGAR** : Cloth Market, Grain Market, Junagadh, Kadod, Kandla (Free-Trade Zone), Karamsad, Katargam (Surat Dist.), Keshod, Lunavada, Mahuva, Mandvi (Surat Dist.), Mahudha, Mehmabad, Mehsana, Mendarda, Morvi, Modasa, *Mundra (Kutch), Nadiad, *Navsari, Ode, Padra, Palanpur, Paliad, *Palitana, Palsana, Patan, Petlad, Porbandar, Rajkot : 2 Branches**, Salaya (Jamnagar Dist.), Savarkunla, Santrampur, Sevalia (Kaira Dist.), Sidhpur, Sihor, Sinor, SURAT : (3 Branches), *Surendranagar, Tadkeshwar, Udhna, Umreth, Una, Unjha, Upleta, Vadnagar, Vejalpur, Valam, Veraval, Viramgam, Visnagar, Waghodia (Baroda Dist.), Wankaner.

DELHI : Chandni Chowk, Delhi, Daryaganj, Delhi, G. B. Road, Delhi, Sabzi Mandi, Delhi, Connaught Circus, New Delhi, *Karol Bagh, New Delhi.

MADHYA PRADESH : Bhopal, Burhanpur, *Dhar, Gwalior, **INDORE CITY** : (2 Branches), Kunud (Raipur Dist.), Raipur, Shahpur, Ujjain.

WEST BENGAL : Calcutta, *Bhowanipore, Brabourne Road, Burra Bazar, Rasbehari Avenue, *Shyam Bazar, Howrah.

ANDHRA PRADESH : Hyderabad, Secunderabad, Shamshabad.

GOA : Aldona, Lotoulim, *Panaji, Ponda, Tivim, Velha Pilar.

TAMIL NADU : Madras (2 Branches), Gummidipundi.

MYSORE : Bangalore, Sayapura, Mangalore.

KERALA : Cochin.

RAJASTHAN : *Jaipur, Ramgarh.
 BIHAR : Jamshedpur, Patna,
 UTTAR PRADESH : M. G. Marg, Lucknow, *Nandan
 Mahal Road, Lucknow, Lalganj.
 PUNJAB : Amritsar, Jullundur.
 * Has Safe Deposit Vault.

GENERAL BANKING BUSINESS TRANSACTED AND INLAND AND FOREIGN LETTERS OF CREDIT ARRANGED

LONDON AGENTS:	NEW YORK AGENTS:
The Chase Manhattan Bank	The Chase Manhattan Bank
Bank of America N.T. & S.A.	Manufacturers Hanover Trust
Midland Bank Ltd.	Bank of America (International)
Barclay's Bank	

EASTERN BANK, LIMITED

(Incorporated in England — 1909, the liability of members being Limited.)

(Wholly owned subsidiary of the Chartered Bank.)
 (Incorporated by the Royal Charter, 1853.)

HEAD OFFICE :—2 & 3 Crosby Square, London, E.C. 3.

BOMBAY OFFICE :—381, Dr. Dadabhai Naoroji Road.
Manager : W. G. Hay. *Accountant* : S. C. Murdeshwar. Tel. Address : "EASTERTIDE." Telephone No. 255056. P.O. Box No. 219. *Branches* : Abu Dhabi, Aden (crater Ma'alla, Sheikh Othman), Al-Ain-Baharin, Manama and Muharraq, Beirut (Lebanon), Bombay, Calcutta, Colombo, Doha (Qatar), Karachi, Kuala-Lumpur, Madras, Mukala (Hadhrmaut, East Aden (Protectorate), Seiyun Sharjah and Singapore.

FIRST NATIONAL CITY BANK

(Incorporated with limited liability in the U.S.A.)
 (Established 1812)

World-wide Banking Services

DEPOSITS	.. ..	\$16,643,010,000
CAPITAL	.. ..	\$ 363,615,000
SURPLUS & UNDIVIDED PROFITS AS ON DECEMBER 31, 1968	.. ..	\$ 638,829,000

HEAD OFFICES : 55, Wall Street, 111, Wall Street and 399 Park Avenue, New York with 171 Branches in New York and 283 Branches and affiliates in 65 countries overseas. London Branches : 34, Moorgate and 17, Bruton Street W. 1. Branches in Argentina, Australia, Bahamas, Barbados, Belgium, Bolivia, Brazil, Cameroon, Canada, Canal Zone, Central African Republic, Chad, Chile, Colombia, Congo Republic, Dominican Republic, Dahomey, Ecuador, El Salvador, France, Gabon, Germany, Greece, Guantanamo Bay, Honduras, Hongkong, India, Indonesia, Ireland, Italy, Ivory Coast, Jamaica, Japan, Korea, Lebanon, Liberia, Malaysia, Mali, Mauritania, Mexico, Morocco, Netherlands, Nicaragua, Niger, Nigeria, Pakistan, Panama, Paraguay, Peru, Philippines, Puerto Rico, Republic of China, Saudi Arabia, Senegal, Singapore, South Africa, Switzerland, Togo, Trinidad, and Tobago, Trucial States, United Kingdom, Upper Volta, Uruguay, Venezuela, Virgin Islands.

Correspondents in every commercially important city in the world.

Supervision in South Asia : 84, Veer Nariman Road, Bombay 1 ; *Vice President* : R. L. Davidson ; *Assistant*

Manager : A. M. Banerjee ; *Assistant Accountant* : C. Timothy Wood ; *Director of Personnel Administration* : Miss M. Bolar, Telephones : 293762, 293343, 293463.

FORT BRANCH : 293, Dr. Dadabhai Naoroji Road, Bombay-1 ; *Manager* : K. S. Karant ; *Assistant Managers* : M. C. George, A. K. Varma ; *Accountant* : K. Murari ; *Pro-Managers* : G. Chakravartty, G. J. Joshi, N. P. Korday, R. S. Padukone, D. M. Shanbhag, M. L. Winters ; *Assistant Accountants* : D. C. Anjaria, S. Biswas, T. K. Ganesan, C. Gholap, D. B. Heble, D. R. Hoskote, C. L. Johnson, E. Mehta, B. G. Naikankatte, K. B. Sonker, J. S. Wankadia ; *Authorised Signer* : B. G. Shah ; *Per-Procuration* : S. V. Nagarkatti.

Tel. Address : "CITIBANK", Phone : 26-3131. Telex : 288, P.O. Box No. 175.

GATEWAY BRANCH : Apollo Bunder, Bombay 1 ; *Assistant Accountant* : A. S. Grewal ; Phone : 213173, P.O. Box No. 1890.

NARIMAN POINT BRANCH : Nirmal, 241/242 Nariman Point, Bombay-20 ; *Assistant Accountant* : V. S. Narayan ; Phone : 29-9872.

BRABOURNE ROAD BRANCH : 9, Brabourne Road, Calcutta ; *Manager* : M. M. Mistri ; *Assistant Managers* : M. A. Callen, T. C. Sanyal ; *Pro-Managers* : N. G. Pamnani, H. K. Nandi, P. S. Thomas ; *Assistant Accountants* : H. S. Ahluwalia, R. C. Dubal, K. Das Gupta, D. S. Rao, P. C. Sengupta, Surinder Singh, K. N. Wahie ; *Authorised Signers* : H. S. Gupta, S. Mukherjee. Tel. Address : "CITIBANK"; Phone : 225741 ; Telex 346 ; P.O. Box No. 655.

CHOWRINGHEE BRANCH : 1, Middleton Street, Calcutta 16 ; *Manager* : H. H. Mitchell ; *Assistant Accountants* : G. D. Bose, K. Das Gupta ; Tel. Address : "CITIBANK", Phone : 44-7596 ; P.O. Box No. 9028.

MOUNT ROAD BRANCH : 151, Mount Road, Madras-2 ; *Assistant Manager* : F. M. Irani ; *Accountant* : S. K. Paul ; *Pro-Manager* : M. K. Subramaniam ; *Assistant Accountants* : S. I. Mahajan, H. I. Subramaniam, V. K. Sood ; *Authorised Signer* : A. S. Anantanarayanan ; Tel. Address : "CITIBANK", Phone : 23-064, P.O. Box No. 2235.

GEORGE TOWN BRANCH : 15/16, Kondi Chetty Street, Madras 1 ; *Pro-Manager* : P. N. S. Menon ; *Authorised Signer* : V. S. Venkatesan ; Phone : 22-453 ; P.O. Box No. 1953.

NEW DELHI BRANCH : 3, Parliament Street, New Delhi ; *Manager* : P. Malhotra ; *Pro-Managers* : H. K. Channabasappa, G. Natarajan ; *Assistant Accountants* : N. M. Bhal, T. P. S. Hora, A. K. Khanna, A. A. Nemazie, S. B. Rao. Tel. Address : "CITIBANK"; Phone : 23116 ; Telex : 332 ; P.O. Box 520. CODES USED : Bentley's Complete and Second Phrases ; Peterson's International 3rd & 4th editions ; A. B. C. 6th edition.

THE HONGKONG AND SHANGHAI BANKING CORPORATION

(Incorporated in Hong Kong with Limited Liability.)
 HEAD OFFICE.—Hong Kong.

Chairman : The Hon. J. A. H. Saunders, D.S.O., M.C.
 Figures as at 31st Dec., 1968 :

CAPITAL AUTHORISED	.. ..	HK. \$ 200,000,000 (Rs. 25,00,00,000)
CAPITAL ISSUED AND FULLY PAID-UP	.. ..	HK. \$ 173,901,475 (Rs. 21,73,76,843)
RESERVE FUND	.. ..	Stg. £ 17,187,500 (Rs. 30,93,72,525)

Banking and Exchange Business of every description transacted with the Principal Commercial Centres of the World.

A Comprehensive Service as Trustees and Executors is also undertaken by the Bank's Trustee Companies in Hong Kong, London & Singapore.

BOMBAY OFFICE : CALCUTTA OFFICE :
16, Veer Nariman Road. 31, Dalhousie Square.

R. V. Munden, T. G. Mead,
Manager. *Manager.*

INDIAN BANK LIMITED (ESTD. 1907.)

MADRAS.

OFFICES IN BOMBAY : 1. United India Life Assurance Bldg., Sir Phirozeshah Mehta Road, Fort. 2. Lakhamsey Napoo Road, Matunga (Central Rly.), Bombay 19. 3. "Kanmoor House", 281/87, Narsinatha Street, Mandvi, Bombay-9. 4. Shanmukhananda Sabha Bldgs., Frank Road, Sion West, Bombay 22. 5. "Sunder", Plot No. 71-C, Govandi Road, Chembur, Bombay 6. Sundaram Bldg., Sion Circle, Bombay 22. and 7. Madhavnagar, 11-12, S. V. Road, Andheri. With a network of Branches and Sub-Offices in all the important places in South India and at Ahmedabad, Calcutta, New Delhi, Poona. Overseas branches at Singapore, Kuala Lumpur, Penang, Malacca, Colombo. *London Agents* : Westminster Bank Ltd. *New York Agents* : First National City Bank and Chase Manhattan Bank.

INDIAN OVERSEAS BANK

Central Office :

151, Mount Road, Madras 2.

AUTHORISED CAPITAL ..	Rs.	1,00,00,000-00
PAID-UP CAPITAL ..	..	.., 1,00,00,000-00
RESERVES ..	..	.., 1,14,80,738-17

CUSTODIAN :—R. N. Chettur, Esq.,

GENERAL MANAGER : A. M. Kadhiresan, Esq.

Branches at :

Ahmedabad, Amritsar, Bombay, Calcutta, Cuttack, Delhi, Faridabad, Hyderabad, Ludhiana, Madras, New Delhi, Panjim (Goa), Poona and throughout South India, Colombo, Singapore, Ipoh, Klang, Malacca, Penang, Kuala Lumpur, Bangkok and Hong Kong.

Agents in all the Principal Commercial Centres of the World.

Every description of Banking business transacted and for those who trade Overseas, The Indian Overseas Bank Ltd., is particularly well equipped to deal with their requirements.

OFFICES AT BOMBAY :—(1) Elphinstone Building, 2/10, Veer Nariman Road, Fort. (2) 117/119, Kazi Syed Street, Bombay 3. (3) Tajoo Kaya Park, Vincent Road, Matunga. (4) 378, Lady Jamsheedji Road, Mahim, Bombay 16. (5) Opp. Town Hall, Timbi Naka, Thana. (6) 525/527, Kalbadevi Road, Bombay 2 ; (7) Plot No. 269, Linking Road, Bandra TPS—III, Bombay 50 AS. (8) 247, Vithalbhai Patel Road, Bombay 4. (9) Plot No. 4. Natraj, Annex, 1st Floor, Chembur, Bombay 71 (AS). (10) New Mahavir Building, Plot No. 396, Telang Road, Matunga, Bombay 19. (11) Plot 1, Jawahar Road, Ghatkopar, Bombay-77. (12) 28, Ashoknagar Co-op. Society Ltd., Near Lohana Balika Grah, Juhu, Vile Parle Scheme, Bombay-56.

JODHPUR COMMERCIAL BANK, LIMITED

(Incorporated in Jodhpur State : Liability of Members is Limited).

REGISTERED OFFICE :—Jalori Gate, Jodhpur. CENTRAL OFFICE :—207, Kalbadevi Road, Bombay. BRANCHES : MARWAR.—Jalori Gate, Jodhpur : Khejarla House, Jodhpur ; Kuchaman City, Nagaur ; Merta City, Pali ; BOMBAY.—53, Tamarind Lane, Fort ; 207, Kalbadevi Road ; 118-122, Kazi Syed Street, Mandvi ; Municipal Building, Bhiwandi (Dist. Thana) ; Jambhali Naka, Thana ; Shivaji Chowk, Kalyan.

THE MAHARASHTRA STATE CO-OPERATIVE BANK, LIMITED

(Incorporating the Vidarbha Co-op. Bank Ltd.)

Head Office : 9, Bakehouse Lane, Fort, Bombay-1. *Regional Office :* Mahal, Nagpur.

Money deposited with the Bank helps the Indian Agriculturists and Small Industries and Sugar Factories organized on a co-operative basis.

	(Rs. in lakhs)
PAID-UP SHARE CAPITAL	1298.83
RESERVE & OTHER FUNDS	
TOTAL DEPOSITS	7318.93
WORKING CAPITAL	11323.71

Branches in Greater Bombay :

- | | |
|-------------|------------------------|
| 1. Andheri | 8. Matunga |
| 2. Byculla | 9. Mulund |
| 3. Chembur | 10. Prabhadevi |
| 4. Goregaon | 11. Santa Cruz |
| 5. Khar | 12. Sion |
| 6. Lalbaug | 13. Vile Parle (East) |
| 7. Mahim | 14. Vile Parle (West). |

Collection arrangements in all the important cities of Indian Union. Banking business of every description transacted.

Deposits of all kinds accepted.

Shri Vasantrao Patil, *Chairman.*

Shri V. M. Joglekar, *General Manager.*

Dr. W. C. Shrishrimal, *Manager.*

MERCANTILE BANK, LIMITED

(Incorporated in England.)

(Liability of Shareholders Limited.)

AUTHORISED CAPITAL ..	£ 4,000,000
SUBSCRIBED CAPITAL ..	£ 2,940,000
PAID-UP CAPITAL ..	£ 2,940,000
RESERVE FUND ..	£ 2,200,000

HEAD OFFICE—1, Queen's Road Central, Hongkong.

LONDON & REGD. OFFICE : 15, Gracechurch Street, London E.C. 3.

WEST END OFFICE—123, Pall Mall, London, S.W. 1.

Branches throughout India and the East.

GENERAL MANAGER F. I. C. Herridge.

BOMBAY MANAGER J. A. Anderson.

SUB-MANAGER A. S. Merrens.

A member of the Hongkong Bank Group.

THE MITSUI BANK, LIMITED

(Incorporated in Japan.)

(Liabilities of Shareholders Limited.)

AUTHORISED CAPITAL .. Yen 27,000,000,000

PAID-UP CAPITAL .. Yen 18,400,000,000

HEAD OFFICE: No. 12, Yurakucho, 1-Chome, Chiyoda-Ku, Tokyo, Japan.

Branches throughout Japan.

OVERSEAS OFFICES: Bombay, London, Bangkok, New York and Singapore.

BOMBAY BRANCH AT: 6, Wallace Street, Dr. Dadabhoy Naoroji Road, Fort, Bombay. P.O. Box No. 1278.

MANAGER: Mr. Chushin Ota.

Telegraphic Address: "MITSUIBANK".

Telephone No. 26-4834 (3 lines).

NATIONAL AND GRINDLAYS BANK, LIMITED

(Amalgamating National Bank of India Ltd., Grindlays Bank Ltd., the Eastern Branches of Lloyds Bank Ltd., and the London Group Business of the Ottoman Bank.)

Registered in London under the Companies Act of 1862 on the 23rd March 1866.

The Liability of Members is Limited.

HEAD OFFICE: 23, Fenchurch Street, London E.C. 3.

The Bank conducts all classes of Banking and Exchange Business throughout the World. Trusteeships and Executorships are undertaken.

BOMBAY BRANCHES: 90, Mahatma Gandhi Road, Mint Road (Corner of Mint Road and Sir P. M. Road); 270/272, Dr. Dadabhoy Naoroji Road (Lloyds Branch); 21/29, Princess Street (Lloyds Branch); 97, Kazi Syed Street, Mandvi, Bombay-3; 65F, Linking Road, Santa Cruz (West), Bombay 54; Shivaji Mandir, N. C. Kelkar Road, Dadar, Bombay 28; 574, Gowalia Tank Road, Cumballa Hill, Bombay 26; 24B, Club Road, Byculla (Next to Maratha Mandir), Bombay-8; Next to Castle Mills: Agra Road, Kolbad Road, Thana, N. Bombay, Pai Lane, Swami Vivekananda Road, Vile Parle, Bombay-56, 43, Mahatma Gandhi Road, Ghatkopar, Bombay-77.

Banks with which National & Grindlays Bank Ltd. is associated: First National City Bank, Lloyds Bank Ltd.

NORTH KANARA GOUD SARASWAT BRAHMIN CO-OPERATIVE BANK, LIMITED

Laxmi Sadan, 361, Vithalbhai Patel Road, Bombay.

OBJECTS:—To raise funds by Debentures, Deposits, etc., to be lent out at interest to members of the Bank against personal securities, gilt-edged securities and immovable properties and to undertake such other business on behalf of the members as is incidental to banking business.

PUNJAB NATIONAL BANK

(Established in 1895)

Regd. Office: Parliament Street, New Delhi.

Transacts Banking and Foreign Exchange Business of every description.

RESERVE BANK OF INDIA

Incorporated under the Reserve Bank of India Act, 1934 (II of 1934) to regulate the issue of Bank notes and the keeping of the reserves with a view to securing monetary stability in India and generally to operate the currency

and credit system of the country to its advantage. Nationalised on 1st January 1949. *Offices and Branches of the Banking Department*—Bombay, Calcutta, Madras, New Delhi, Kanpur, Bangalore, Nagpur, Patna and Byculla (Bombay 8). *Branches of the Issue Department*—Bombay, Calcutta, New Delhi, Kanpur, Madras, Nagpur, Bangalore, Patna and Byculla (Bombay 8), Issue Department Sub-Offices—Hyderabad and Gauhati.

STATE BANK OF HYDERABAD

(Subsidiary of State Bank of India).

Incorporated in India under Special Statute: The Liability of the members is limited.

HEAD OFFICE: HYDERABAD (DN.) AUTHORISED CAPITAL: Rs. 1,00,00,000; ISSUED AND PAID-UP CAPITAL: Rs. 50,00,000. Offers complete Banking Service through a network of Offices spread over Andhra Pradesh, Maharashtra, Madras City and Mysore States and through its correspondents elsewhere in India. Foreign Exchange Business of all types undertaken.

BOMBAY OFFICES: 1. New India Assurance Building, Mahatma Gandhi Road, Fort, Bombay.

2. 262-270, Narsi Natha Street, Bhat Bazar, Mandvi, Bombay 9.

MADRAS OFFICES: 1. 41, Linghi Chetty Street, George Town, Madras-1.

2. 84, Mint Street, Sawcarpet, Madras-3.

STATE BANK OF INDIA

(Constituted under the State Bank of India Act, 1955)

AUTHORISED CAPITAL Rs. 20,00,00,000

PAID-UP CAPITAL AS ON 31-12-1968 Rs. 5,62,50,000

RESERVE FUND AND OTHER RESERVES AS ON 31-12-1968 .. Rs. 13,24,00,000

Local Head Offices:—Ahmedabad, Bombay, Calcutta, Hyderabad, Kanpur, Madras and New Delhi.

London Office:—Clements House, 14-18, Gresham Street, London, E.C. 2.

REPRESENTATIVE OFFICES:—

(a) Western Europe .. Goethestrasse 26-28, 6, Frankfurt (Main), West Germany.

(b) U.S.A., Canada and Latin America .. 44, Wall Street, New York N.Y. 10005, U.S.A.

1,557 offices comprising 7 Local Head Offices, Three Regional Manager's Offices, 1,161 branches and 376 Sub-offices in India and 8 branches (5 in Pakistan under Custodian) and 2 Representative offices abroad.

All classes of Banking Business undertaken including Foreign Exchange Business.

Chairman: Shri R. K. Talwar.

Vice-Chairman: Shri K. T. Desai.

Managing Directors:—(1) Shri N. Ramanand Rao.

(2) Shri T. R. Varadachary.

Names of the Subsidiaries:—State Bank of Bikaner & Jaipur; State Bank of Hyderabad; State Bank of Indore; State Bank of Mysore; State Bank of Patiala; State Bank of Saurashtra; State Bank of Travancore.

SYNDICATE BANK

THE BANK WHICH CONSIDERS

'NO MAN IS TOO SMALL FOR A BANK ACCOUNT'

Choose from our various Savings Schemes and ensure a better future.

Our Cash Certificates are ideal for presentations on occasions of Marriages, Upanayanam, and Birthdays.

BRANCHES IN BOMBAY :

- | | |
|--------------------|--------------------|
| 1. Fort, | 6. Khar, |
| 2. Mandvi, | 7. Mulund, |
| 3. Matunga, | 8. Chembur, |
| 4. Broach Street, | 9. Andheri East, |
| 5. Lamington Road, | 10. Dombivli East, |
| 11. Tardeo. | |

OTHER BRANCHES OPENING SHORTLY :

- | | | |
|------------|---------------|------------------|
| 1. Colaba, | 2. Kalbadevi, | 3. Malabar Hill. |
|------------|---------------|------------------|

KOLHAPUR TRADES & PROFESSIONS

GHATGE PATIL INDUSTRIES PVT. LTD.,—P.O. Uchagaon;
Dist. Kolhapur, Maharashtra. Grey Iron Founders: C. I. Castings up to BS. grade 17. Maximum Weight Single Casting—100 Kgs. Foundry Capacity—600 M. Tonnes per month. Manufacturers of: Mechanical Clutches and Power Take-offs (dry friction disc, Over-Centre type) upto 3000 HP. under licence from Twin Disc Incorporated, U.S.A., Marine Reverse and Reduction Gears upto 105 HP. under Licence from the Parsons Engineering Co. Ltd., U.K.

KULKO ENGINEERING WORKS LTD.

Ichalkaranji Dist., Kolhapur.

Manufacturers of Imani Horizontal, Four Stroke, Cold Start, Medium & Low Speed engines from 8 HP to 13 HP and 8 HP Direct Coupled Pumping Sets on Trolley or Base Frame.

NAGPUR TRADES & PROFESSIONS**ABDUL HUSAIN M. ALABUXJI**

Itwari, Nagpur 2.

Phone: 22687 & 26631.

Grams: "HARDWARE"

Dealers in Iron, Hardware, Paints & Colours, Pipes, Sanitaryware, Machinery, Explosives, Alkathene Pipes & Building Materials.

Babulal & Sons.—Lokadganj, Nagpur 5.

BALLARPUR COLLIERIES COMPANY

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Phone: 23054 & 23541.

Grams: 'COAL'

Collieries at Ballarpur, Sasti & Ghugus.

SYNDICATE BANK

(Head Office : MANIPAL, South India)

Resources over	Total Branches	T. A. Pai,
Rs. 140 Crores.	over 300.	CUSTODIAN.

UNION BANK OF INDIA

(Estd. : 1919)

Regd. Office : 66/80, Apollo Street, Fort, Bombay-1.

Telex. No. 2297 & 2611.

UNITED WESTERN BANK, LIMITED

(Estd. : 1936).

SCHEDULED BANK : Redg. Office : Satara ; Central Office :—Bombay ; Total branches 39 at principal business Centres in Maharashtra ; Authorised Capital Rs. 20,00,000 ; Transacts every kind of Banking business, loans, etc.

M. G. KARAJGAR ENGINEERING WORKS

33, Madhavrao Karajgar Road, Shivaji Udyamnagar, Kolhapur.

Manufacturers of 'Karajgar' Diesel Engines/Pumpsets; also 'Karajgar' Sugar Cane crushers available.

Phone: 425

Grams: 'EMKAY'

UNITED CASTINGS

Kolhapur-3.

Phone: 879

Grams: 'VACASTINGS'

Manufacturers of PACO quality Machines Lathes, Pan Mixers etc.

DADABHOY'S NEW CHIRIMIRI PONRI HILL COLLIERY CO. PVT. LTD.,

(Regd. Office: People's Building (Khorshed Bldg.) Sir P. M. Road, Fort, Bombay-1)

Administrative Office: Temple Road, Post Box 85, Nagpur-1.

Phone: 22630, 23660. Grams: 'PONRIHILL' Nagpur.

Joint Managing Directors:

J. N. Daga — Miss F. Dadabhoy

Directors:

P. J. Registrar — G. N. Daga

S. N. Daga — Smt. Radhadevi Daga

Lady M. P. Kharegat — Mrs. K. R. Ghandhi

S. A. Shroff

Secretary : R. S. Saraf

Administrative Officer: G. R. Gokhale.

Blue Bell Icecreams.—19, Great Nagpur Road, Nagpur-2.
Bombay Auto Traders.—7, Mount Road, Nagpur-1.
C. P. Foundry Works.—Kamptee Road, P. O. Bezon Bagh, Nagpur-4.
Callcut Tyre Retreading Co.—Mount Road Extension, Nagpur-1.
Canara Work-hops Ltd.—Wadi, Nagpur.
Chanderk & Sons.—Tilak Road, Nagpur-2.
Chandak Bros. Pvt. Ltd.—Sadar, Nagpur-1.

Chandak & Sons.—Mahal, Nagpur-2.
 Conwest Pr. Ltd.—Market Road, Extension, Nagpur-1.
 Deepak Tyre Retreaders, Itwari, Nagpur-2.

DEEPAK PAINT MART

Paints & Hardware Merchants, Residency Road, Nagpur-1

Phone: 33845

Managing Partner: S. G. Singh.

Delhi Paints Corporation, Kamptee Road, Nagpur-1.
 Diamond Industrial Works.—Jaganath Road, Nagpur-2.
 Dipal Plastic Industries, Bhandare Road, Nagpur-2.
 Dhillon Saw Mills.—Laskhari Baug, Nagpur-2.
 Doshi Brothers.—Itwari, Nagpur-2.

EMPRESS MILLS

Nagpur

Phone: 24311 & 24315 Grams: "EMPRESS" Nagpur.
 Regd. Office: Bombay House, Bruce Street, Fort, Bombay-1.

General Manager: Shri K. B. Madan
 Production Manager: Shri J. F. Driver
 Administrative Manager: Shri S. R. Guha
 Personnel Manager: Dr. M. P. Srivastava
 Office Superintendent: Shri R. F. Pocha
 Chief Sales Officer: Shri C. S. Tungare
 Chief Engineer: Shri A. S. Rajamani
 Factory Manager: Shri V. G. Dhawale
 Medical Officer: Dr. N. R. Sheshadri
 Office Assistant: Shri A. B. Khajotia

GOLCHHA ADVERTISING AGENCY

Sunder Nagar, Sardar, Nagpur-1.

Hoarding Contractors & Advertising Agents.

Phone: 24491.

Grams: 'GOLCHAACO'

HINDUSTHAN MOTOR CORPORATION

16/3, Mount Road Extension,

Nagpur-1.

Phone: 23996, 24461.

Grams: 'HINDMOTOR'

Stockists of Guaranteed Auto Spare Parts, Tyres & Tubes.

Hassonjee & Sons (Khan Saheb M).—Itwari, Nagpur-2.

Hassonjee & Co.—Central Avenue Road, Nagpur-2.

Macson & Co. (India) Pvt. Ltd.—Bhandare Road, Bagadganj, Nagpur-2.

Maharashtra Steel Rolling Mills.—Bhandare Road, Itwari, Nagpur-1.

Manganese Ore India Ltd., Mount Road, Nagpur-1.

Midland Industries, 47, Great Nagpur Road, Nagpur-3.

Mishra & Co.—Shanti Kutir, Sardar, Nagpur-1.

NAGPUR TIMES

Ramdas Peth, Nagpur-1.

Phone: 22035

Managing Editor & General Manager: A. G. Sheorey

Editor: S. B. Bedekar.

Electrical Goods

RATHI & SONS

Kamptee Road, Nagpur.

Authorised Distributors for Kirloskar Electric Motor, LT-LK Starter and Switchgear, Indian Diesel Engine, Pumps & Pumpsets, Parry's Fertiliser Mixtures & H.N.G. Bottles & Glassware Tumblers.

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Grams: 'RAJA'

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Nagpur-2

Phone: 24277 (Office)

22448 (Res.)

Prop: C. D. Shah.

Sen & Sen.—Near New Colony, Nagpur-1.

Sharma Electric Services, Gandhi Baug, Nagpur-2.

SHIVRAJ FINE ART LITHO WORKS

Subhash Road, Nagpur-2.

Phone: 24391, 22146.

Grams: 'LITHOGRAPH'

State Award Winners, Multi Colour Offset Printers equipped with most modern and exclusive machinery and equipments; Speciality; Trade mark labels, Cartons, Calendars, Pictures, Posters, Folders, Playing Cards, Atlases and all sorts of multicolour Printing.

Standard Varnish House, 36, Guru Nanak Colony, Nagpur-2.

Timber Product.—44, Great Nag Road, Imambad Chowk, Nagpur-3.

POONA DISTRICT TRADES & PROFESSIONS

Abubhai Ibrahim.—368, Nana Peth, Poona-2.
 Africa Drug House.—Laxmi Road, Poona-2.
 Agarwal & Co.—775, Ganesh Peth, Poona-2.
 Agarwal Cloth Stores.—130/131, New Bazar, Kirkee.
 All India Motor Transport Co.—63, Nana Peth, Poona-2.
 Allied Electronics Ltd.—2435/2, East Street, Poona-1.
 Anand Cloth Stores.—9-B, Budhwar Peth, Poona-2.

ATLAS STEEL ERA

95-A, Shankarseth Road, Poona-9.

Manufacturers of Steel Furniture, Office & Industrial Equipment. Phone: 25967.

Show Room: ATLAS AGENCY

80-28, Nana Peth, Opp. Y.M.C.A. Poona-2. Phone: 24815.

Allied Furniture

Steel wooden Furniture,

2, Mangalwar Peth, 20, Barve Road, Poona-11. Phone: 23339.

ATLAS METAL INDUSTRIES

Poona Nasik Road,

P.O. Bhosari, Poona; Phone: 8438; 185, Murzban Road, Andheri, Bombay-58; Phone: 574004. Manufacturers of Non-ferrous Castings Bearing Bushes, Pumps Parts, Sugar Machinery Parts, Steam Valves & Fittings.

B. G. SHIRKE & CO.

Structural Engineers, Builders and Sole Agents in India for Richier-Weitz Tower Cranes and Construction Equipment.

1205, Raobahadur Apte Road, Poona 4.

Structural steel building components, designers and fabricators and manufacturers of steel and aluminium windows, marble mosaic tiles, precast concrete products, bricks, ready lime mortar etc.

Sponsors in technical and financial collaboration of European firms, for manufacture in Poona of

- (1) "Siporex" lightweight cellular, reinforced, auto-claved prefabricated structural building components for use in walls, partition floors and roofs.
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- (4) Minato: Vibro concrete building block making machines.

Phones: Head Office
56712 & 58947

Telex No. 014/280

A/B Code 'SIRKE PN'

"Ajay Tiles" and other
Factories:
At Mundhwa, Poona.
Phones: 7151, 28944

Bakre & Co.—204, Mangalwar Peth, Poona-2.
 Bhagade & Co.—3, Ganesh Peth, Poona.
 Buldota & Co.—391, Raviwar Peth, Poona-2.

BAJAJ AUTO LTD.

Regd. Office & Factory: Bombay-Poona Road, Chinchwad, Poona-19

Phone: 8551-52-53; Director, Managing Agents: Rahul-kumar Bajaj; Chief Engineer: G. N. Deshmukh; Works Manager: D. V. Borgaonkar.

BIOTECH LABORATORIES (Micrology Division)

Manufacturers of Biological Slides & Materials; 759/89, Bhandarkar Institute Road, P.Y.C. Poona-4; Phone: 57997.

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Kerala Automobiles, 2/71, Lalbagh Fort Road, Bangalore 4.
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Kilburn & Co. P. Ltd., P. Box 10, Bangalore 1.
Kirloskar Bros. Ltd., H/141, Narasimharaja Road, Bangalore 2.
Kissan Products P. Ltd., Old Madras Road, Krishnarajapuram, Bangalore 16.
Kochikar Brothers Ltd., Viveswarapuram, Bangalore.
Kohinoor Electric Co., Chickpet, Bangalore 2.
Krishna Industries P. Ltd., 230, Old Tharagupet, Bangalore 2.
Krishnamachari & Co. T. T., Tasker Town, Bangalore.
Laboratory Supplies Co., Avenue Road, Bangalore 2.
LEKHRAJ JASSUMAL & SONS.—113-F, Brigade Road, Bangalore-1; Branch: No. 7, Dahanukar Bldg., Kalbadevi Road, Bombay 2; Manufacturers of "RIONET" Radios & Transistors & Hearing aids.
Lalwani Radio Corporation, 37/38, Silver Jubilee Park Road, Bangalore 2.
Machine Tools India Private Ltd., 41, Silver Jubilee Park Road, Bangalore 2.
Madras Auto Service P. Ltd., 137, Sri Narasimharaja Road, Bangalore.
Madras Bangalore Transport Co., 14, II Road, New Tharagupet, Bangalore 2.
Madras Circle Pipe Dealers' Association Ltd., Shankar Bldg., Silver Jubilee Park Road, Bangalore 2.
Madras Vegetable Oil Products Ltd., Platform Road, Bangalore 2.
Madras Woodlands Hotel, 5, Sampangy Tank Road, Bangalore 1
Mahadeswara Lorry Service. (Redg.) Ramu Mansion, No. 9, 4th Cross Road, New Kalasipalayam Layout, Bangalore-2
Mahakali Engineering Corporation, H-66, Nagarthpeth, Bangalore 2
Mahalakshmi Transport Co. Private Ltd., D-113, Mamulpet, Bangalore 2.
Management & Industrial Consultants P. Ltd., 17th Cross, Bangalore 3.
Mahomed Ebrahim & Co. P. Ltd., Brigade Road, Bangalore.
Manyam & Co., 23, East Subedar Chatram Road, Bangalore 3.
Margarine & Refined Oils Co. Ltd., Mysore Road, Bangalore 2.
Massey-Ferguson India Ltd., P. Box No. 3, Bangalore 1.
Meccano Floorings P. Ltd., 1/1, Richmond Road, Bangalore 25.
Metro Cycle & Auto Stores, A-94, Albert Victor Road, Bangalore 2.
Metro Malleable Manufacturers Ltd., Silver Jubilee Park Road, Bangalore 2.
Misral Moolchand & Co., Dewan Surappa Lane, Bangalore 2.
Misral Bhabutmal & Brothers, 314, Chickpet, Bangalore 2.
Modalliar & Sons, P. M., Cottonpet, Bangalore 2.
Modern Automobiles, Bank Road, Mysore.
Modern India Trading Co., 296, Akkipet, Bangalore 2.
Monotype Corporation Ltd., 6A, Cunningham Road, Bangalore 1.
Moto Industries Co. Ltd., P. Box 93, Bangalore.
Muddanna, M., & Sons, 158, Avenue Road, Bangalore City.
Mysore Ace Apparels P. Ltd., 2-B, M. Gandhi Road, Bangalore 1.
Mysore Carpet Works Ltd., 67, Subedar Chatram Road, Bangalore 3.
Mysore Cements Ltd., 19, Race Course Road, Bangalore 1.
Mysore Chemical & Fertiliser Ltd., Chikbanavar P.O., Bangalore.
Mysore Chemical & Industrial Minerals, 40, Sabuvani Bldg., Narasimharaja Road, Bangalore 2.
Mysore Chemical Mfrs. Ltd., 28, Krishnarajendra Road, Bangalore 4.
Mysore Cycle Importing Co., G-35, Arcot Sreenivasachar Street, Bangalore.
Mysore Electro-Chemical Works Ltd., The.—Post Box No. 1022, Bangalore 22.
Mysore Electroplating & Engg. Works, 11-A, Jayachamarajendra Road, Bangalore 2.
Mysore Industrial Products, 331, First Main Road, New Tharagupet, Bangalore.
Mysore Industrial & Testing Laboratory Ltd., Malleswaram, Bangalore 3.
Mysore Industries Supplies, Post Box No. 559, Bangalore 2.
Mysore Lamp Works Ltd., P. Box No. 1009, Malleswaram, Bangalore 12.
Mysore Machinery Manufacturers Ltd., 5th Mile, Mysore Road, Bangalore 2.
Mysore Paper Mills Ltd., Asiatic Buildings, Bangalore.
Mysore Starch Manufacturing Co., Bangarapet P.O., Bangalore.
Mysore Sugandhi Agarbathi Factory, Cottonpet, Bangalore 2.
Mysore Sugar Co. Ltd., Sri Jayachamaraja Road, Bangalore.
Mysore Surgical Industries, 66, Dewan Surappa Lane, Bangalore 2.
Mysore Tobacco Co. Ltd., District Board Buildings, Kempegowda Road, Bangalore City.
Mysore Waterproofs Ltd., Hindustan Aircraft P.O. Bangalore 17.
Mysore Wire & Metal Industries, No. 13, 1Vth Cross, Magadi Road, Bangalore 2.

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Manufacturers of Sanitary Sewer Pipes, Fittings, Firebricks and other sanitary articles, Salt Glazed Acid resisting Tiles & Chemical Stoneware.

Nagindas Kilabhai, 87, Silver Jubilee Park Road, Bangalore 2.
Nagaraja Industries, Rajajinagar, Yeshwanthpur P.O., Bangalore 22.
National Industries Co., Magadi Road, Bangalore 2.
National Sugar Works and Coffee Powder Manufacturers, Old Tharagupet, Bangalore.
New India Corporation, 7/1, Mission Road, Bangalore 1.
New India Pharmaceutical Industries Ltd., 44, Lalbagh Road, Bangalore 2.
New Premier Chemical Industries, Albert Victor Road, Chamaraajpet, Bangalore 2.
Noble Paint & Varnish Co. Private Ltd., 5, Godown Street, Bangalore 2.
Olympaid Engineering Works, Industrial Estate, Rajajinagar, Bangalore 10.
Optoplas Industries, M. Gandhi Road, Bangalore 1.
Oriental Hat Mfg. Co., 67, Jangam Maistry Lane, Balepet, Bangalore 2.
Oriental Rubber Trading Co., 2/3, Silver Jubilee Park Road, Bangalore 2.
Parry & Co., Ltd., Silver Jubilee Park Road, Bangalore.
Paxal Corporation, 13, Sri Krishnarajendra Road, Bangalore 2.

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105/1, Infantry Road, Post Box No. 23, Bangalore 1.

Phone : 23860.

H.O. : Yusuf Bldg., Mahatma Gandhi Rd., Bombay-1.

(for further details please see Bombay Commercial firm section)

Philips India Ltd., George Oakes Bldg., Sri Narasimharaja Road, Bangalore.
Pioneer (Madras) Ltd., 180, Commercial St., Bangalore 1.
Poddar Martin Mining and Minerals Private Ltd., 6, Church Street, Bangalore 1.
Popular Automobiles, 86, S. J. Park Road, Bangalore 2.
Popular Umbrella Mfg. Co., Mamulpet, Bangalore 2.
Porcelain Products Co., Subedar Chatram Road, Bangalore.
Printers (Mysore) Ltd., Mahatma Gandhi Road, Bangalore 1.
Printers House Ltd., Musvee Bldg., 48, Central Street, Bangalore.
Pyramid Advertising & Publicities, 4, Okalipuram Extension, Bangalore 2.
Radhakrishna Soapnut & Perfumery Works Co., 712/1, Chickpet, Bangalore 2.

RADIO & ELECTRICALS MFG. CO., LTD.,

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Bangalore-26

Phone: 75177

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Manufacturers of (1) Radios (Valve and Transistorised types) (2) Radio Components such as Band, Switches, Loud Speakers, Paper & Electrolytic Capacitors (3) Single and Polyphase Electricity Meters (4) Water Meter (5) P.V.C. Covered Wires, Cables and Bare Conductors (6) Lightning Arresters etc.

Radio Engineering Co., Phillips House, 6-D, Brigade Road, Bangalore.
Radio House, Brigade Road, Bangalore.
Radio Soap Institute, The, Lalbagh Road, Bangalore 2.
Raghual & Co. (Bangalore) Ltd., 70, Arcot Srinivasachar Street, Bangalore 2.
Rainbow Trading Co., Chickpet, Bangalore.
Raja Cycle and Motor Works, "Raja Buildings", Sri Narasimharaja Road, Bangalore.
Rampen Pharmaceuticals, 271, 10th Cross Road, Bangalore.
Rane (Madras) Ltd., Narasimharaja Road, Bangalore 2.
Ranjan Automobiles, Shafi Bldg., Kalasipalayam Main Road, Bangalore 2.
Ravish Synthetic Twines & Ropes P. Ltd. Rajaji nagar, Bangalore 10.
R. G. Engineering Works, 5/63, Manvarthipet, Bangalore 2.
Refrigerators & Home Appliances (Mysore) Agencies, Residency Road, Bangalore 1.
Reliable Corpn. P. Ltd., 2 & 3, Narasimharaja Road, Bangalore 2.
Reliable Engineering Works, Oosmankhan Road, Bangalore 2.
Reliance Electric Co., 20, Sri Narasimharaja Road, Bangalore.
Research Chemical Laboratories, 550, 8th Main Road, Bangalore 12.
Rico Trading Co., Narasimharaja Road, Bangalore 2.
R. S. Cooper & Co., 112-D, Brigade Road, Bangalore 1.
RUBY RUBBER WORKS (BANGALORE) LTD.—6th Mile, Bannerghatta Road, Bangalore-29.
Rudra Industries, Kallas Kunj, Bangalore 3.
S. Dhondusa Gold Thread Factory, Subedar Chatram Road, Bangalore City.
Sandur Manganese & Iron Ores (Private) Ltd., Sandur House, Palace Road, Bangalore.
Sankey Electrical Stampings Private Ltd., Rajaji Nagar, Bangalore 10.
Satya Industries Private Ltd., 3, Seshadri Road, Bangalore 9.
Shantilal & Co., Oosmania Buildings, Sri Narasimharaja Road, Bangalore.
Shilton Hotel, St. Mark's Road, Bangalore 1.
Shivram's Radio House, S. J. Park Road, Bangalore 2.
Shroff Channabasappa & Sons, Avenue Road, Bangalore 2.
Shoukatali Automobiles, Albert Victor Road, Bangalore 2.
Simpeon & Co. Ltd., 29-A, Mahatma Gandhi Road, Bangalore.
Singer Sewing Machine Co., 171, Commercial St., Bangalore.
Singson Automobiles, Kalasipalayam Main Road, Bangalore 2.
Sound Products Co., Post Box No. 14, 60, Subedar Chatram Road, Bangalore 2.
Southern Roadways Ltd., 201, Jayachamarajendra Road, Bangalore 2.
Spencer & Co. Ltd., Mahatma Gandhi Road, Bangalore.
Sri Hindwani Electricals, 3, Santha Veeriah Lane, Chickpet, Bangalore 2.
Sri Krishna Spg. & Wvg. Mills P. Ltd., Sudhama House, Chickpet, Bangalore 2.
Standard Plastic Manufacturers, 8, Avenue Road, Bangalore 2.
States Engineering Co., Sri Narasimharaja Road, Bangalore.
States Hotel, Gundopanth Street, Bangalore 2.
Steel Construction Co. Ltd., Harding Road, Bangalore 4.
Steel (India) P. Ltd., 86-87, S. J. Park Road, Bangalore 2.
Steelman Private Ltd., 2, Annaswami Road, Bangalore 1.
Stumpf Schuele & Somappa (P.) Ltd., 78, Hosur Road, Bangalore South.
Suedes & Leatherettes Ltd., Hindustan Aircraft P.O., Bangalore.
Super Automobiles, 151, Broadway Road, Bangalore.
Swastik & Co., 92, 3rd Cross Road, Gandhinagar, Bangalore.
Swastik Agencies, Post Box No. 647, Sabuvani Buildings, Sri Narasimharaja Road, Bangalore 2.
Swastik Dress Mfg. Co. Ltd., 104, Jangam Maistry Lane, O.T.C. Road, Bangalore 2.
Swastik Electric Industries, Chickpet Cross, Bangalore 2.
Tata Oil Mills Co. Ltd. (Tomco Sales Department), 2A, Mahatma Gandhi Road, Bangalore 1.
Thos. Cook & Son (Continental and Overseas) Ltd.—20C, Mahatma Gandhi Road, Bangalore.
Trans Auto Traders, 70/4, Narasimharaja Road, Bangalore 2.
Tyretreads (India) Private Ltd., 1, New Mental Hospital Road, Bangalore 2.
Uberoi Trading Co., 11, Mission Road, Bangalore 2.
United Engineering Corporation Private Ltd., 8, Mission Road, Bangalore 2.
United Trades and Agencies, Chickpet, Bangalore.
Vaswani India Ltd., 130-C, Veerappa Block, 17th Cross Road, Malleswaram, Bangalore 3.
Victoria Hotel, 21, Residency Road, Bangalore 1.
Vikas Sons Private Ltd., 298, Chickpet, Bangalore 2.
Viswanath Electric & Radio Corpn., Narasimharaja Road, Bangalore 2.
Waco., 2F, Mahatma Gandhi Road, Bangalore.
Webb's Sales & Service Ltd., 80, Mahatma Gandhi Road, Bangalore 1.
West Coast Paper Mills Ltd., 14, Kasturba Road, Bangalore 1.
West End Hotels, Race Course Road, Bangalore 1.
Western India Match Co. Ltd., 41, Old Tharagupet, Bangalore.
Wind Parts Co., G-37, Osmania Bldg., Sri N. Raja Road, Bangalore 2.

COMMERCIAL FIRMS IN CALCUTTA

A. T. Gutgutia & Co., 33, Netaji Subhas Road, Calcutta 1.
Abdul Rahim Oosman & Co., India Pvt. Ltd., 2, Rajmohan Street, Calcutta 1.
Acme Manufacturing Co., 8-1, Esplanade East, Calcutta 1.
Adair Dutt & Co., (India) Pvt. Ltd., 5, Dalhousie Square East, Calcutta 1.
Adeco Ltd., 2, Chowringhee Road, Calcutta 13.
Adding Machines (India) Private Ltd., 29, Ezra Mansions, 10, Govt. Place, Calcutta 1.
Adross Ltd., 14, Old Court House Street, Calcutta 1.
Advani Pvt. Ltd., 30, Garstin Place, Calcutta.
Advertising & Sales Promotion Co., P-36, India Exchange Place, Calcutta 1.
A. Firpo Ltd., 18/2, Chowringhee Road, Calcutta 13.
Agarpara Co. Ltd., 1 & 2, Old Court House Corner, Calcutta 1.
Ahmed Dadabhoy & Co. (India) Pvt. Ltd., 8-A, Amratolla Lane, Calcutta 1.
Ahmed A. Fazelbhoy Ltd., 55, BR BB Road, Calcutta 1.
Air Carrying Corporation, 6A, Raja Subhodh Mullick Square, Calcutta 13.
Air Conditioning Corporation Private Ltd., 17, Taratolda Road, Calcutta 53.
Air France, 41, Chowringhee Road, Calcutta 16.
Air Link Pvt. Ltd., 58, Clive Ghat Street, Calcutta 1.
Air Survey Co. of India Pvt. Ltd., 6, Jessore Road, Calcutta 28.
Airways India Ltd., 31, Chittaranjan Avenue, Calcutta 12.
A. & J. Main & Co. Ltd., 16, Netaji Subhas Road, Calcutta 1.
Albert David Ltd., 15, Chittaranjan Avenue, Calcutta 13.
Albyon Plywood Ltd., 11, Clive Row, Calcutta 1.
Alcock W. J. & Co. Ltd., 7, Hastings Street, Calcutta.
Alexander Pvt. Ltd., 26, Strand Road, Calcutta 1.
Alexander Moody & Co. Ltd., P-21/22, Radha Bazar Street, Calcutta 1.
Alex Miller (Merchants) (P.) Ltd., 137, B R B B Road, Calcutta 1.
Alfred Herbert (India) Private Ltd., 13/3, Strand Road, Calcutta-1.
All India General Transport Corpn. Ltd., 134/4, Mahatma Gandhi Road, Calcutta 7.
All-India Tea and Trading Co. Ltd., 63, Radhabazar Street, Calcutta 4.
All India Trading Co. (1959), 4th Floor, C. R. Avenue, Calcutta 13.
Alcock E. M. & Mohatta Ltd., 19, British Indian Street, Calcutta 1.
Allen Richards & Co., 5-B, Clive Ghat Street, Calcutta 1.
Alliance Engineers Pvt. Ltd., 67-B, Netaji Subhas Road, Calcutta 1.
Allied Distributors & Co., 33, Brabourne Road, Calcutta.
Allied Resins & Chemicals (Pvt.) Ltd., 13, Camac Street, Calcutta 16.
Allied Trading Corpn., 71-A, Netaji Subhas Road, Calcutta 1.
Ambari Tea Co. Ltd., 29-A, Balaram Ghose Street, Calcutta 4.
American Express Co. Inc., 21, Old Court House Street, Calcutta 1.
American Refrigerator Co., Pvt. Ltd., 12/D, Park Street, Calcutta 16.
Aminchand Payarelal Ltd., 135, Canning Street, Calcutta 1.
Amluckie Tea Co. Ltd., 3, Netaji Subhas Road, Calcutta 1.
Amrita Bazar Patrika Pvt. Ltd., 14, Ananda Chatterjee Lane, Calcutta 3.

Amritlal Ojha & Co., Ltd., Security House, 23B, Netaji Subhas Road, Calcutta 1.
Amrutanjan Ltd., 5, Bentinck Street, Calcutta 7.
Ananda (Assam) Tea Co. Ltd., 9, Brabourne Road, Calcutta 1.
Ananda Bazar Patrika Ltd., 6, Sooterkin Street, Calcutta 13.
Anandamovee Agency Ltd., 24, Netaji Subhas Road, Calcutta 1.
Anderson Wright & Co., 7, Wellesley Place, Calcutta 1.
Andrew Yule & Co. Ltd., 8, Clive Row, Calcutta 1.
Angelo Brothers Ltd., 7, Ramgopal Ghosh Road, Cossipore, Calcutta 2.
Angus Co., Ltd., 3, Clive Row, Calcutta 1.
Angus Keith & Co., 30, Strand Road, Calcutta 1.
Antoine Bentz (P) Ltd., 8, Netaji Subhas Road, Calcutta 1.
Antool & Co. Pvt. Ltd., S. 91, Acharya P.C. Road, Calcutta 9.
A. P. V. Engineering Co. Pvt. Ltd., 2, Jessore Road, Calcutta 28.
Arim Metal Industries Ltd., 23, Convent Street, Calcutta 14.
Arkay Supply Syndicate, 24, Khetra Mitra Lane, Salkia, Howrah.
Armen George Co. Pvt. Ltd., 35, Ezra Street, Calcutta 1.
Arora & Co. Ltd., 7-A, Clive Row, Calcutta 1.
Art Centre Ltd., 7, Indian Mirror Street, Calcutta 13.
Art Floors Pvt. Ltd., 2, Clive Row, Calcutta 1.
Arthik Jagat (Hindi Financial Weekly), 4/23, Leonard, Calcutta 22.
Arthur Butler & Co. (Muzaffarpore) Ltd., 3rd Floor, 10, Pollock Street, Calcutta 1.
Arun Importers Pvt. Ltd., P-38, India Exchange Place, Calcutta 1.
Arvind Brothers Pvt. Ltd., 4, Sakiat Place, Calcutta 13.
Aryan Mining & Trading Corpn. Pvt. Ltd., 61, Strand Road, Calcutta 6.
A. S. Soobashah Bros., 21, Colootla Street, Calcutta 1.
Asbestos Cement Ltd., Taratolla Road, Calcutta 24.

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Phone : 581491 (9 Lines).

Asbestos Products Co., 71-A, Netaji Subhas Road, Calcutta 1.
Asea Electric India Pvt. Ltd., 4, Lyons Range, Calcutta 1.
Asea United Traders and Industries Pvt. Ltd., 10-B, Kapalitola Lane, Calcutta 12.
Ashland Oil Co. India, 27, Sir R. N. Mukherjee Road, Calcutta 1.
Ashok Chandra Rakhit Ltd., 26, Cotton Street, Calcutta 7.
Ashoka Market ng Ltd., 11, Clive Row, Calcutta 1.
Ashok Cement Ltd., 11, Clive Row, Calcutta 1.
Asia Engineering & Industries Co. Pvt. Ltd., 11, Ezra Street, Calcutta 1.
Asia Engg. Supply Stores, Ltd., P-15, Bentinck Street, Calcutta 1.
Asian Marketing Co. Ltd., 38, Netaji Subhas Road, Calcutta 1.

Asian Refractories Ltd., 15, Ganesh Chandra Avenue, Calcutta 13.
Asiatic Mfg. Co., 84-A, Netaji Subhas Road, Calcutta 1.
Asiatic Oxygen & Acetylene Co. Ltd., 8, Dalhousie Square East, Calcutta.
Asiatic Steam Navigation Co. Ltd., 16, Strand Road, Lyons Range, Calcutta 1.
Assam Bengal River Service Pvt. Ltd., 26A, Ezra Mansion, 10, Government Place (East), Swallow Lane, Calcutta 1.
Assam Hardboards Ltd., 132, Roshbehari Avenue, Bollygunge, Calcutta 19.
Assam Sillimanite Ltd., P-4, Oil Installation Avenue, Calcutta 23.
Associated Accessories Pvt. Ltd., 51, Ganesh Chandra Avenue, Calcutta 13.
Associated Aesby Industries Ltd., 22, Strand Road, Calcutta 1.
Associated Cement Companies Ltd., 9, Brabourne Road, 1st Floor, Calcutta 1.
Associated Commercial Co. of India Private Ltd., 7, Hastings Street, Calcutta 1.
Associated Engineers Pvt. Ltd., 24, Netaji Subhas Road, Calcutta 1.
Associated Equipment Co., 10, Clive Row, Calcutta.
Associated Indian Enterprises Pvt. Ltd., 225C, Acharya J. B. Road, Calcutta 17.
Associated Industrial Development Co. P. Ltd., Nicco House, 2, Hare Street, Calcutta 1.
Associated Metal Industries of India Ltd., 16, Mangoe Lane, Calcutta 1.
Associated Mining Industries Ltd., 4, Lyons Range, Calcutta 1.
Associated Pigments Ltd., 14, Netaji Subhas Road, Calcutta 1.
Asutosh Mookerjee & Co., P. Ltd., 12, Raja Woodmunt Street, Calcutta 1.
Atherton & Co., Pvt. Ltd., G., 21, R. N. Mookerjee Road, Calcutta 1.
Atlantis East Ltd., 41, Chowringhee Road, Calcutta 16.
Atlas Industries Co., P-3, Raja Rajkissen Street, Calcutta 6.
Atlas Works Pvt. Ltd., 119, Ripon Street, Calcutta 16.
Auto Distributors Ltd., 36, Chowringhee Road, Calcutta 16.
Automatic Machine Co. India Pvt. Ltd., 3/1, Chowringhee Square, Calcutta 13.
Avery Co. of India Pvt. Ltd., 28-2, Waterloo Street, Calcutta 1.
Aviwoipo of India Pvt. Ltd., 22, Chittaranjan Avenue, Calcutta 13.
Awat Sing & Co., P-15, India Exchange Extension, Calcutta 12.
Azad Trading Co. Pvt. Ltd., 12, Zakaria Street, Calcutta 1.

B. CHOWDHURY & COMPANY

Engineers, Manufacturers & Manufacturers' Representatives :
138, Canning Street, CALCUTTA.

Phone : 221004

(For details please see Commercial Firms Section—BOMBAY).

Babcock & Wilcox of India Pvt. Ltd., 1 & 3, Brabourne Road, Calcutta 1.
Babulal & Co., 67/39, Strand Road, Calcutta 6.
Badri & Co. Pvt. Ltd., 67/50/4B, Strand Road, Calcutta 1.
Baghmari Tea Co. Ltd., 3, Netaji Subhas Road, Calcutta 1.
Bagri Iron & Steel Co., 40/1, Shibola Street, Calcutta 7.

Bahri & Co. P. Ltd., P-39, Mission Row Extension, Calcutta 13.

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Grams : "SOFTLITE".

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For further details please see Commercial Firms Section—BOMBAY.

Baker & Co., 71-A, Netaji Subhas Road, Calcutta 1.
Bakshi, S. A. B. & Co., Bakshi Bldgs., 32, Colootola Street, Calcutta 1.
Baldeoram Saligram Pvt. Ltd., 61, Strand Road, Calcutta 1.
Bally Jute Co. Ltd., 15, India Exchange Place, Calcutta 1.
Balmor Lawrie & Co. Ltd., 21, Netaji Subhas Road, Calcutta 1.
Bando Industries, 35, Diamond Harbour Road, Alipore, Calcutta 27.
Banerjee & Co. Ltd., S. N., 10, Old Post Office Street, Calcutta 1.
Banerjee Chakraborty & Co. (P.) Ltd., 135, Canning Street, Calcutta 1.
Banerjee Santosh Ch. & Sons Ltd., 7, Swallow Lane, Calcutta 1.
Banerji & Co. Pvt. Ltd., G. C., 20, Maharshi Devendra Road, Calcutta 7.
Bangur Brothers Ltd., 14, Netaji Subhas Road, Calcutta 1.
Banks & Sons, 15, India Exchange Place, Calcutta 1.
Banku Behari Paul & Co. Pvt. Ltd., 126, Old China Bazar Street, Calcutta 1.
Banu Behari Saha, 640, Rabindra Sarani, Calcutta 3.
Bansal & Co. Ltd., 173, Park Street, Calcutta 17.
Banshidhar Ghanshyamdass, 11, Sahib Thakur Lane, Calcutta 7.
Barak Tea Co. Ltd., 23-A, Netaji Subhas Road, Calcutta 1.
Bata Shoe Co. Pvt. Ltd., 30, Theatre Road, Calcutta 16.
Bathgate & Co. Ltd., 2, Dalhousie Square East, Calcutta 1.
Batliboi & Co., Gandhi House, 26, R. N. Mukherjee Road, Calcutta 1.
B. Ghose & Co. Pvt. Ltd., 29, Mission Row Extension, Calcutta 13.
B. B. Chatterjee & Co. Pvt. Ltd., 22, Raja Woodmunt Street, Calcutta 1.
B. B. Paul & Co., 30/2, Agarwala Garden Road, Calcutta 38.
B. C. Nawu & Bros. Ltd., 7, Bipin Behari Ganguly Street, Calcutta 12.
B. C. Paul & Co., 18, Netaji Subhas Road, Calcutta 1.
B. K. Shaw Manthi Works, 18-B, Dum Dum, Calcutta 30.
B. R. Herman & Mohatta (India) Ltd., 16, British Indian Street, Calcutta 1.
Behar Firebricks & Potteries Ltd., 22, Strand Road, Calcutta 1.
Beharilal Benipershad Exports & Imports Pvt. Ltd., 144, Cotton Street, Calcutta 7.
Behari Lal Dey & Co., 67/49, Strand Road, Calcutta 7.
Beharilal Khandelwal & Co., 33, Netaji Subhas Road, Calcutta 1.
Bell's Asbestos & Engineering India Pvt. Ltd., 24, Chittaranjan Avenue, Calcutta 12.
Belrex India Ltd., 10, Princep Street, Calcutta 13.
Bengal Belting Works Ltd., 2, Dalhousie Square East, Calcutta 1.

Bengal Bihar Transport Co., (Calcutta) Pvt. Ltd., 13, Camac Street, Calcutta 16.

BENGAL CHEMICAL & PHARMACEUTICAL WORKS LTD.

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Bengal Cordage Co., 113, Monohardas Chowk, Netaji Subhas Road, Calcutta 1.
Bengal Corporation Pvt. Ltd., 4, Ganesh Chandra Avenue, Calcutta 13.
Bengal Dental Supply Co. Pvt. Ltd., 175-4, Bowbazar Street, Calcutta 12.
Bengal Electric Lamp Works Ltd., 4, Fairlie Place, Calcutta 1.
Bengal Enamel Works Ltd., 41, Chowringhee Road, Calcutta 16.
Bengal Engineering Co. Ltd., 12, Dalhousie Sq. (East), Calcutta 1.
Bengal Engineering and Trading Co., 30-D/2, Diamond Harbour Road, Calcutta 34.
Bengal Hardware & Tin Seal Mfg. Co., 70, Netaji Subhas Road, Calcutta 1.
Bengal Immunity Co. Ltd., 153, Dharamtala Street, Calcutta 13.
Bengal Industries, 23A, Netaji Subhas Road, Calcutta 1.
Bengal Ingot Co. Ltd., 5, Hide Road, Kildernore, Calcutta 43.
Bengal Mercantile Co., 71, BRBB Road, Calcutta 1.
Bengal Metrograph Co. P. Ltd., 53, Pramanick Ghat Road, Calcutta 36.
Bengal & Overseas Trading Co., 1, Bonfield Lane, Calcutta 1.
Bengal Paste Co., 10, Delhi Entally Road, Calcutta 14.
Bengal Phototype Co. Pvt. Ltd., 46-1, Amherst Street, Calcutta 9.
Bengal Porcelain Co. Ltd., 1/2, Moti Seal Street, Calcutta 13.
Bengal Potteries Ltd., 45, Tangra Road, Calcutta 15.
Bengal River Service Co. Ltd., 22, Strand Road, Calcutta 1.
Bengal Salt Co. Ltd., 12, Netaji Subhas Road, Calcutta 1.
Bengal Stores Ltd., 8A, Chowringhee Place, Calcutta 13.
Bengal Tea Co. Ltd., 9, Brabourne Road, Calcutta 1.
Bengal Timber Trading Co. Ltd., 4, Clive Row, Calcutta 1.
Bengal Trading Co., 70, Netaji Subhas Road, Calcutta 1.
Bengal Trading Corporation, 127/1, Manicktola Main Road, Calcutta 54.
Bengal United Co. Pvt. Ltd., 7A, Middleton Street, Calcutta 16.
Bengal Waterproof Works (1940) Ltd., 41, Shakespear Sarani, Calcutta 7.
Bengal Wire Nails Co. Ltd., 6, Tiljala Road, Calcutta 46.
Bennett, Coleman & Co. Ltd., 13-1 & 13-2, Govt. Place East, Calcutta 1.
Bensen Industries, 96, Shree Arobindo Road, Salkia, Howrah.
Benson (India) Ltd. S. H., 1, Auckland Place, Calcutta 16.
Bery Brothers, 135, Canning Street, Calcutta 1.
Bhagwan Finance Corporation Pvt. Ltd., 10, Clive Row, Calcutta 1.
Bhalla's Carpets, 45, Park Street, Calcutta 16.

Bhalotia Metal Mfg. Co., 3/1, Duffer Street, Lilloah, Howrah Temple Road, Calcutta 7.
Bharat Battery Manufacturing Co. Pvt. Ltd., 238/A, Acharya Jagadish Bose Road, Calcutta 20.
Bharat Commerce & Industries Ltd., 9, Parsee Church Street, Calcutta 1.
Bharat Electrical Industries Ltd., 5, Mission Row, Calcutta 1.
Bharat Engineering Co., 14/2, Old China Bazar Street, Calcutta 1.
Bharat Exports Ltd., 9B, Chowringhee Place, Calcutta 13.
Bharat General and Textile Industries Ltd., 9, Parsee Church Street, Calcutta 1.
Bharat Line Ltd., 13, Brabourne Road, Calcutta 1.
Bharat Nidhi Ltd., 11, Clive Row, Calcutta 1.
Bharat Overseas Pvt. Ltd., 18-A, Brabourne Road, Calcutta 1.
Bharat Produce Co. Ltd., 8, India Exchange Place, Calcutta 1.
Bharat Sheet Metal Industries Ltd., 22, Beerpara Lane, Dum Dum, Calcutta 30.
Bhaskar Tea Co. Pvt. Ltd., 2, Brabourne Road, Calcutta 1.
Bhatkawa Tea Co. Ltd., 3, Netaji Subhas Road, Calcutta 1.
Bholanath Dutt (Paper Merchants) Pvt. Ltd., Raghunath Bldgs., 34-A, Brabourne Road, Calcutta 1.
Bholanath Paper House Private Ltd., 32-A, Brabourne Road, Calcutta 1.
Bhowra Kankani Collieries Ltd., 25, Brabourne Road, Calcutta 1.
Bhubandhar Tea Co. Ltd., 23-A, Netaji Subhas Road, Calcutta 1.
Bhutoria Bros. Pvt. Ltd., 56, Netaji Subhas Road, Calcutta 1.
Bidyut Shilpa Ltd., 372/66, Russa Road South, Calcutta 33.
Biyaynagar Tea Co. Ltd., 11, Govt. Place East, Calcutta 1.
Bijni Doars Tea Co. Ltd., 24, Netaji Subhas Road, Calcutta 1.
Binani Commercial Co. Pvt. Ltd., 42/1, Strand Road, Calcutta 7.
Binani Metal Works Ltd., 38, Strand Road, Calcutta 1.
Bird & Co. Pvt. Ltd., Chartered Bank Bldgs., Calcutta 1.
Birkmyre Bros. (P) Ltd., 4, Dalhousie Square East, Calcutta 1.
Birla Bombay Ltd., 15, India Exchange Place, Calcutta 1.
Birla Bros. Pvt. Ltd., 15, India Exchange Place, Calcutta 1.
Birla Gwalior Pvt. Ltd., 15, India Exchange Place, Calcutta 1.
Birla Jute Manufacturing Co. Ltd., 15, India Exchange Place, Calcutta 1.
Birmingham Iron & Steel Co., 8, Canning Street, Calcutta 1.
Bishnanth Tea Co. Ltd., 2, Ganesh Chandra Avenue, Calcutta 1.
B. K. Khanna & Co. Pvt. Ltd., 13, Chapel Road, Calcutta 22.
B. K. Shaw Industries Pvt. Ltd., P. 3; B. K. Paul Avenue, Calcutta 5.
Blacker & Co. Pvt. Ltd., 18, Strand Road, Calcutta 1.
Blackwood Hodge (India) Pvt. Ltd., Euclid Works, 139, Beliaghata Road, Calcutta 15.
Blackwoods India Ltd., 2, Mangoe Lane, Calcutta 1.
Bobb Framjee Ltd., 41-A, Free School Street, Calcutta 16.
Bokaro & Ramgur Ltd., 22, Chittaranjan Avenue, Calcutta 13.
Bombay Ammonia Pvt. Ltd., 5, Mission Row, Calcutta 1.
Bombay Co. Pvt. Ltd., 18-A, Brabourne Road, Calcutta 1.
Bombay Trading Co. Pvt. Ltd., 14, Pagiya-patty Street, Calcutta 7.
Bonard & Co. Ltd., 5, Council House Street, Calcutta 1.
Boral & Sen, 11/B, Holwell Lane, Calcutta 9.

Bose M. L. & Co. Pvt. Ltd., Lakshminilal House, 14, Jagannath Dutt Lane, Calcutta 9.

Bourne & Sheppard, 141, S. N. Banerjee Road, Calcutta 13.

Boving & Co. Ltd., 10, Princep Street, Calcutta 13.

B. P. Khemka Pvt. Ltd., 5, Clive Row, Calcutta 1.

Bradma of India Ltd., 20-B, Park Street, Calcutta 16.

Brady W. H. & Co. Ltd., Mercantile Bldgs., Lal Bazar, Calcutta 1.

Braithwaite & Co. (India) Ltd., Clive Works, Hide Road Calcutta 43.

Briggs R. V. & Co. Pvt. Ltd., 9, Bentinck Street, Calcutta 1.

Brijmohan Bros. Ltd., 90, Stephen House, 4, Dalhousie Square East, Calcutta.

Britannia Biscuit Co. Ltd., 15, Taratola Road, Calcutta 53.

Britannia Engineering Co. Ltd., 3, Netaji Subhas Road, Calcutta 1.

British Drug Houses India Private Ltd., 58/D, Chowringhee Road, Calcutta.

British Electrical & Pumps Pvt. Ltd., 1-1B, Mission Row, Calcutta 1.

British India Steam Navigation Co. Ltd., 16, Strand Road, Calcutta 1.

British India Trading Co., 12, Waterloo Street, Calcutta 1.

British Overseas Airways Corp., 41, Chowringhee Road, Calcutta 16.

Brocho & Co. P. Ltd., 36, Weston Street, Calcutta 13.

Brooke Bond India Pvt. Ltd., 1, Taratola Road, Calcutta 24.

B. R. Herman & Mohatta (India) Private Ltd., 19, British Indian Street, Calcutta-1.

B. S. Industries, 435, Jessore Road, Calcutta 28.

Bubna More & Co., 23/A, Netaji Subhas Road, Calcutta 1.

Buher (Asbestos) Pvt. Ltd., 12, Netaji Subhas Road, Calcutta 1.

Bunge & Co. Ltd., 8, Old Court House Street, Calcutta 1.

Burmah Oil Co. (India Trading) Ltd., India Exchange Bldgs., 4, India Exchange Place, Calcutta 1.

Burmah-Shell Oil Storage & Distributing Co. of India Ltd., Hong Kong House, 31, Dalhousie Square, Calcutta 1.

Burn & Co. Ltd., Nityadham Mukherjee Road, Calcutta 1.

Burnet, Davies & Co. Ltd., 22, Canning Street, Calcutta 1.

Butto Kristo Neogi & Co., 14-2, Old China Bazar Street, Calcutta 1.

Butto Kristo Paul & Co. Ltd., 92, Sovabazar Street, Calcutta 5.

C. D. Thakkar & Co., 22, Brabourne Road, Calcutta 1.

Cadbury-Fry (India) P. Ltd., 9-A, Esplanade East, Calcutta 11.

Calcutta Chemical Co. Ltd., 35, Panditla Road, R. B. Avenue, Calcutta 29.

Calcutta Commercial Co., 37, Strand Road, Calcutta 1.

Calcutta Credit Corp., 24, Park Street, Calcutta 16.

Calcutta Electric Supply Corp., Victoria House, Chowringhee Square, Calcutta.

Calcutta Engineering Co. (India) (P.) Ltd., 1, British Indian Street, Calcutta 1.

Calcutta Essence & Gas Supply Co., 2-A, Grants Lane, Calcutta 12.

Calcutta Expanded Metal Mfg. Co. Pvt. Ltd., P-16, Kalakar Street, Calcutta 7.

Calcutta Fan Works Ltd., 30, Chowringhee Road, Calcutta-16.

Calcutta Hardware Store, 110/1, Amherst Street, Calcutta 9.

Calcutta Industrial Chemicals & Minerals Co. Pvt. Ltd., 43, Dharamtolla Street, Calcutta 13.

Calcutta Investment Co. Ltd., 9, Brabourne Road, Calcutta 1.

Calcutta Jute Agency Ltd., Oriental Building, Calcutta 1.

Calcutta Jute Manufacturing Co. Ltd., 20, Old Court House Street, Calcutta 1.

Calcutta Mercantile Co., 161-1-A, Rash, Beharv Avenue, Calcutta 19.

Calcutta Metal Industries Ltd., 14/6, Sovaram Bysack Street, Calcutta 7.

Calcutta Metallic Co., 11, Harish Mukherjee Road, Calcutta 25.

Calcutta Mineral Supply Co. Private Ltd., 31, Jackson Lane, Calcutta 1.

Calcutta Phototype Co. Ltd., 6, Chowringhee, Calcutta 13.

Calcutta Safe Deposit Co. Ltd., 22-B, Netaji Subhas Road, Calcutta 1.

Calcutta Silk Manufacturing Co. Ltd., 135A, Biplabi Rash Behari Basu Road, Calcutta 1.

Calcutta Steel Co. Ltd., 4 Old Court House Street, Calcutta 1.

Calcutta Supply Agency, 8, Biplabi Rash-behari Basu Road, Calcutta 1.

Calcutta Trading Corp., 12, Chitapore Road, Calcutta 1.

Calcutta Tramways Co. Ltd., P-4, Mission Row Extension, Calcutta 1.

Calcutta Tube Co., 21-A, BRBB Road, Calcutta 1.

Calcutta Wax Traders & Co. Pvt. Ltd., 10 Clive Row, Calcutta 1.

Callarman J. Ltd., 40, Elliot Road, Calcutta 16.

Caltex (India) Ltd., 22, Chittaranjan Avenue, Calcutta 13.

Cambay R. & Co. Pvt. Ltd., Kent House, P-33, Mission Row Extn., Calcutta 13.

Canteen Equipment Trading Co., 22, Shyampukur Street, Calcutta 6.

Caneco Pvt. Ltd., 14, Netaji Subhas Road, Calcutta 1.

Capital, 5, Mission Row, P.O. Box 14, Calcutta 1.

CAPRIHANS INDIA PVT., LTD.

Manufacturers of 'Sungloss' Decorative Surfacing, 'Sunlam' Industrial Laminates, 'Sunvic' Rigid P. V. C. Sheets, 'Sunflex' P. V. C. Sheeting, 'Sunstrene' Polystyrene Sheets, etc., 8-A, Rawdon St., Calcutta-17, Phones: 440729 & 446359, Head Office: Block-D, Shiv Sagar Estate, Dr. Annie Besant Road, Worli, Bombay-18 (WB). Phones: 372285-86-87 and 378548-49. Grams: "CAPRIHANS".

Cardboard Materials & Printing Co. Ltd., 7, Convent Road, Entally, Calcutta 14.

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Carew & Co. Ltd., 6, Old Court House Street, Calcutta 1.

Cargo Inspectors & Superintendence Co. Pvt. Ltd., 17, Brabourne Road, Calcutta.

Carlie Lawrie & Co., 1, British Indian Street, Calcutta 1.

Carr Allen & Co., 82/B, Elliot Road, Calcutta 16.

Carrit Moran & Co. Pvt. Ltd., 9, R. N. Mukherjee Road, Calcutta 1.

Carter Pooler & Co. (P) Ltd., 1, Kashi Nath Dutta Road, Calcutta 36.

Castings Corporation (India) Private Ltd., 45, Madhusudan Pal Chowdhury Lane, Howrah.

Castlewood (India), 12G, Park Street, Calcutta 16.

Castro Ltd., 14, India Exchange Place, Calcutta 1, Manager: M. Y. Gaitonde.

Cement Marketing Co. of India Ltd., Bombay Mutual Assurance Bldg., Calcutta 1.

Central India Machine Co., 155, Dharamtolla Street, Calcutta 13.

Central Oil Co., 36, Brabourne Road, Calcutta 1.

Central Stores Supplies Ltd., 23, Vivekananda Road, Calcutta 7.

Central Trading Co., 137, BRBB Road, Calcutta 1.

Century Components Co. (P.) Ltd., 44-A, Wellesley Street, Calcutta 16.

Ceramic Sales Corporation Ltd., 41, Jawaharlal Nehru Road, Calcutta 16.

Chaman Industries (P.) Ltd., 9, Rabindra Sarani, Calcutta 1.

Champan Marketing Co. Ltd., 15, India Exchange Place, Calcutta 1.

Chamurchi Tea Textile & Engg. Industries Ltd., 12, India Exchange Place, Calcutta 1.

Chancham & Worah Pvt. Ltd., 18, Netaji Subhas Road, Calcutta.

Chandara & Co. Ltd., P. C., P-2, Mission Row Extn., Calcutta 1.

Chandi Charan Nayak Pvt. Ltd., 124-1, B B G Street, Calcutta 12.

Chatterjee R. M. & Sons Pvt. Ltd., 40, Sitanath Bose Lane, Howrah, Calcutta 6.

Chaudri & Co., Wallace House, 4/5, Bankshall Street, Calcutta 1.

Chemical Plant & Equipment Ltd., 66, Dharamtolla Street, Calcutta 13.

Chemo Therapeutics (India) P. Ltd., 30/1A, Grey Street, Calcutta 5.

Chhaganlal Dahyabhai & Co. 8, Ezra Street, Calcutta 1.

Chicago Telephone & Radio Co. Pvt. Ltd., 25, Chowringhee, Calcutta 13.

Chika Pvt. Ltd., 31-B, Dent Mission Road, Calcutta 23.

Chimmanlal Desai & Co., 54, Bentinck Street, Calcutta 1.

Chotanagpur Clay & Minerals, Mercantile Buildings, Lalbazar Street, Calcutta 1.

Chowgule & Co. (Hind) Ltd., 7, Chittaranjan Avenue, Calcutta 13.

Chowringhee Sales Bureau Pvt. Ltd., 3A, Chowringhee Road, Calcutta 13.

Chunnilal Prabhudas & Co. (Calcutta) Pvt. Ltd., 55/58, Canning Street, Calcutta 1.

Cleco Pvt. Ltd., 2-1, Barrackpore Trunk Road, Barnagore, Calcutta 50.

Cinecitra P. Ltd., 6/3, Madan Street, Calcutta 13.

Cirugia D. Lux Ltd., 24, Chowringhee Road, Calcutta 13.

C. K. Sen & Co. Pvt. Ltd., Jabakusum House, 34, C. R. Avenue, Calcutta 12.

Clarion McCann Advertising Services Ltd., 55-B, Free School Street, Calcutta 16.

Cleveland Construction Co. Pvt. Ltd., Gillanders House, Netaji Subhas Road, Calcutta 1.

Coates of India Pvt. Ltd., 3, Canal East Road, Calcutta 4.

Cobin P. Ltd., P-19, Durga Road, Calcutta 16.

Columbia Films of India Ltd., Humayun Court, Lindsay Street, Calcutta 16.

Commercial & Engineering Corp., 138, Canning Street, Calcutta 1.

Commission Agents Pvt. Ltd., 97, Stephen House, 5, Dalhousie Square, Calcutta 1.

Components and Machinery Corporation, 9/12, Lal Bazar Street, Calcutta 1.

Consolidated Construction Co., Ltd., P-12, Mission Row Extn., Calcutta 1.

Consolidated Pneumatic Tool Co. Ltd., 30, Jawaharlal Nehru Road, Calcutta 1.

Containers & Closures Ltd., 2, Fairlie Place, Calcutta 16.

Continental Commercial Co. Pvt. Ltd., 2-1, Old Court House Corner, Calcutta 1.

Continental Plant Machinery Co. Pvt. Ltd., 16, Hare Street, Calcutta 1.

Cooke & Kelvey Ltd., 20, Old Court House Street, Calcutta 1.

Coomar P. C. & Sons (Hardware) Pvt. Ltd., 145, Netaji Subhas Road, Calcutta 1.

Corrugating & Paper Processing Co., P. Ltd., 243, Barrackpore Trunk Road, Calcutta 36.

Cotton Agents Ltd., 8, India Exchange Place, Calcutta 1.

Cresswell W. S. & Co. Pvt. Ltd., 3, Clive Row, Calcutta 1.

Cromelite (India) Pvt. Ltd., P-35, India Exchange Place, Calcutta 1.

Crossley & Towers Pvt. Ltd., 100, Dilkusa Street, Calcutta 17.

Cruickshank & Co. Ltd., 4/5, Bankshall Street, Calcutta 1.

Cuthbertson & Harper (India) Ltd., 10, Government Place, Calcutta 1.
 Cyma Engineering Co., 34, Strand Road, Calcutta 1.
 Dacca Ayurvedic Pharmacy Ltd., 195, Prince Anwar Shah Road, Calcutta 45.
 D. N. Bakhshi & Sons Private Ltd., 152-B, Mahatma Gandhi Road, Calcutta-7.
 Dalchand Bahadur Singh, 15, Gariahat Road, Calcutta 19.
 Dalmia Cement (Bharat) Ltd., 4D, Dalhousie Sqr. East, Calcutta 1.
 Dalmya M. L. & Co., 76 Ashutosh Mukherjee Road, Bhowanipore, Calcutta 25.
 Damodar Coal Co. Pvt. Ltd., 1A, Vanistart Row, Calcutta 1.
 Darbhanga Marketing Co. Ltd., 15, India Exchange Place Calcutta 1.
 Darjeeling-Jalpaiguri Tea Co. Ltd., 6, Mangoe Lane, Calcutta 1.
 Das Gupta & Co. Ltd., 15, Mahendradal Sircar Road, Calcutta 12.
 Das Reprographics Private Ltd., Taratolla Road, Calcutta 53.
 Das Zimmermann Pvt. Ltd., Taratolla Road, Calcutta 53.
 Dass & Co. (India) Pvt. Ltd., 43, Dharamtolla Street, Calcutta 53.
 Dass S. C. & Co. Pvt. Ltd., 178, Belilios Road, Howrah, Calcutta 1.
 Dattas India Pvt. Ltd., 24, Strand Road, Calcutta 1.
 Daulatram Rameshwari, 5, Synagogue Street, Calcutta 1.
 Davenport & Co. Pvt. Ltd., 5 & 7, Netaji Subhas Road, Calcutta 1.
 Daw Sen & Co. Pvt. Ltd., 10, Lindsay Street, Calcutta 16.
 Day Bannermann & Co. Ltd., 27, Waterloo Street, Calcutta 1.
 Dazzle Products Ltd., 138, BMBB Road, Calcutta 1.
 D. C. M. Products (1937) Pvt. Ltd., 9, Convent Road, Entally, Calcutta 14.
 Debsons Pvt. Ltd., 2, Madan Street, Calcutta 13.
 Denis Malcolm & Co. Pvt. Ltd., 8, Netaji Subhas Road, Calcutta.
 DeLuxe Pvt. Ltd., 82A, Chowringhee Centre, Calcutta 13.
 Depenning & Depenning, 28, Ezra Mansion 10, Govt. Place East, Calcutta 1.
 Development of Industries (India) P. Ltd., 135, Prince Street, Calcutta 13.
 Development of Metal Industries Ltd., 72/1-B, Lansdowne Road, Calcutta 25.
 Dey's Medical Stores Private Ltd., 6/D, Lindsay Street, Calcutta 16.
 Dhakeshwari Rice & Oil Co., Private Ltd., 4, Chittaranjan Avenue, Calcutta 13.
 Dhakuria Engineering Works Pvt. Ltd., 13, India Exchange Place, Calcutta-1.
 D. H. Brothers Ltd., 26, Ganesh Chandra Avenue, Calcutta 13.
 Dhur Galvanizing Work (1955) Ltd., 92, Ultadanga Main Road, Calcutta 4.
 Diamond Products Ltd., 2, Fairlie Place, Calcutta 1.
 Diana Engineering Co. 42, Netaji Subhas Road, Calcutta 1.
 Dibrugarh Co. Ltd., 3, Netaji Subhas Road, Calcutta 1.
 Dickie R. A. & Co. (Agencies) Ltd., 30, Strand Road, Calcutta 1.
 Dies & Tools Ltd., 11, R. N. Mukherjee Road, Calcutta 1.
 Dillaverkhan & Rahimkhan Co. Pvt. Ltd., 12, Amratolla Lane, Calcutta 1.
 Dolphin Laboratories Private Ltd., 1, Allenby Road, Calcutta 20.
 Don Watson & Co. Ltd., 19, British India Street, Calcutta 1.
 Dost Mohammad & Co. Pvt. Ltd., 1, Chowringhee Square, Calcutta 1.
 Dr. Paul Lohmann (India) Ltd., East Angalia House, 23, Carnac Street, Calcutta 16.
 Ducat & Co. Pvt. Ltd., W.F., 5, Clive Row, Calcutta 1.

Duff Thomas & Co. India Pvt. Ltd., 2 & 3, Clive Row, Calcutta 1.
 Dulichand Omraolall, Hindusthan Buildings, 4, Chittaranjan Avenue, Calcutta 13.
 Duncan Bros. & Co. Ltd., 31, Netaji Subhas Road, Calcutta 1.
 Dunlop India Ltd., Dunlop House, 57-B, Free School Street, P.B. No. 391, Calcutta 16.
 Durlov Chandra Singha Pvt. Ltd., 58, Clive Street, Calcutta 7.
 Dutt & Co. Pvt. Ltd., 76/1, Cornwallis Street, Calcutta 6.
 Dwarkin & Son Pvt. Ltd., 8-2, Esplanade East, Calcutta 1.
 E. C. Bose & Co. Private Ltd., 13/A, St. George Terrace, Calcutta 22.
 Eagle Commercial Co. Pvt. Ltd., 16, Princep Street, Calcutta 13.
 Eagle Lithographing Co. Pvt. Ltd., 26/B, Christopher Road, Calcutta 46.
 East Anglia Plastics (India) Ltd., 3, Carnac Street, Calcutta 16.
 East Baraboni Coal Co. Pvt. Ltd., 4, Mandeville Gardens, Calcutta 19.
 East Bengal River Steam Service Ltd., 87 Sovabazar Street, Calcutta-5.
 East Bhalgora Colliery Co. Pvt. Ltd., 135, Canning Street, Calcutta 1.
 East End (India) P. Ltd., 35, Chittaranjan Avenue, Calcutta 12.
 East India Corporation Ltd., 18, Netaji Subhas Road, Calcutta 1.
 East India Goatskin Co. 24A, Bright Street, Calcutta 17.
 East India Metal Co. Ltd., 41/1-B, Ram Kanta Bose Street, Calcutta 3.
 East India Pharmaceutical Works Ltd., 6, Little Russel Street, Calcutta 16.
 East India Trading Co., P. B. No. 487, 2, Church Lane, Calcutta 1.
 East Indies Trading Corporation, 12-B, Clive Row, Calcutta 1.
 East Katras Colliery Co. Ltd., 135, Canning Street, Calcutta 1.
 East Sathgram Coal Co. Pvt. Ltd., 135, Canning Street, Calcutta 1.
 Eastern Accumulator Co., 3-1, Mangoe Lane, Calcutta 1.
 Eastern Commerce Co., 7A, Leonard Road, Calcutta 22.
 Eastern Company Pvt. Ltd., 114, Stephen House, Calcutta 1.
 Eastern Doors Tea Co. Ltd., 24, Netaji Subhas Road, Calcutta 1.
 Eastern Electric & Engineering Co. Pvt. Ltd., 25, Chowringhee, Calcutta 13.
 Eastern Equipment and Sales Ltd., 24-B, Park Street, Calcutta 16.
 Eastern Importers Syndicate, 10, BRBB Road, Calcutta 1.
 Eastern India Services & Marketing Co. Ltd., 14, Radha Bazar Lane, Calcutta 1.
 Eastern Industries Co., 9/4, Patulia Lane, Calcutta 9.
 Eastern Industrial Corporation, 142/1, Radhabazar Street, Calcutta 1.
 Eastern Mercantile Co., 37, BRBB Road, Calcutta 1.
 Eastern Metallizing Co. P. Ltd., 6, Gopal Dr. Road, Calcutta 1.
 Easun Enge. Co. Ltd., 20A, Carnac Street, Calcutta 16.
 Economic Tanks Supply Co., 100, Mahatma Gandhi Road, Calcutta 7.
 Edna Lorenz Ltd., Suite 7, Chowringhee Mansion, Calcutta 16.
 Edward Keverters P. Ltd., 1/A, Surendra N. Banerjee Road, Calcutta 13.
 Edward Miller & Co., 20, Strand Road, Calcutta 1.
 Electric Construction & Equipment Co., Ltd., 9, Kaliprasanna Singhee Road, Calcutta 2.
 Electrical Mfg. Co. Ltd., 136, Jessore Road, Calcutta 28.
 Electro-Chemical Industries Co., 27, Bipin Mitter Lane, Calcutta 4.
 Electro Steel Castings Ltd., Stephen House, 4, Dalhousie Square East, Calcutta 1.

Ellas B. N. & Co. Pvt. Ltd., Norton Bldg., 1-2, Old Court House Corner, Calcutta 1.
 Empire Jute Co. Ltd., 3, Netaji Subhas Road, Calcutta 1.
 Engineering Corporation, 38, N. S. Road, Calcutta 1.
 Engineering Materials Supply Co., 2, Bepin Pal Road, Calcutta 26.
 Equitable Trading Co. Ltd., 158-C, Dharamtala Street, Calcutta 13.
 Esavi India Match Mfg. Co., 47, Murari-pukur Road, Calcutta 11.
 Ess Lahiri & Co. Pvt. Ltd., 2, Church Lane, Calcutta 1.
 ESSO Standard Eastern, Inc., 6, Church Lane, Calcutta 1.
 Everett Steamship Corp., 4, Government Place (N), Calcutta 1.
 Everett Travel Service, 4, Government Place (N), Calcutta 1.
 Everlite Insulating Industries P. Ltd., 25, Swallow Lane, Calcutta 1.
 Ewing & Co. Ltd., 4, Clive Row, Calcutta 1.
 Exporters and Distributors (India) Pvt. Ltd., 20, Mangoe Lane, Calcutta 1.
 Express Dairy Co. Ltd., 198, Bhupen Roy Road, Behala, Calcutta 34.
 Express Newspapers Ltd., 18-A, Brabourne Road, Calcutta 1.
 Eyre Smelting Pvt. Ltd., 51, Hide Road, Calcutta 43.
 FAG India P. Ltd., 16, Cossipore Road, Calcutta 2.
 Fairway Trading Co., 39, Sitalatola Lane, Narkeldanga, Calcutta 11.
 Far-Eastern Agencies Ltd., P-14, Mission Row Extn., Calcutta 1.
 Favre-Leuba & Co. Pvt. Ltd., N. E. Corner, Dalhousie, 1, Old Court House Corner, Calcutta 1.
 Fenner J. H. & Co. (India) Ltd., 56D, Free School Street, Calcutta 16.
 Figgis A. W. & Co. Pvt. Ltd., D-6, Gillander House, Calcutta 1.
 Financial Express, 18-A, Brabourne Road, Calcutta 1.
 Firestone Tyre & Rubber Co. of India Pvt. Ltd., 18, Carnac Street, Calcutta 16.
 Flash Lights (India) Pvt. Ltd., 135, Princep Street, Calcutta 13.
 Fogt, G. M. & Co. Pvt. Ltd., 1, Park Mansion, Park Street, Calcutta 16.
 Fort Gloster Industries Ltd., 31, Chowringhee Road, Calcutta 16.
 Fotie Lall Seal & Sons Pvt. Ltd., 10, Swallow Lane, Calcutta 1.
 Francis Klein & Co. Pvt. Ltd., 1, India Exchange Place, Calcutta 1.
 Frank Ross & Co. Ltd., 7, Chowringhee, Calcutta 13.
 Fraser & Co., Ltd., Fairlie House, 4, Fairlie Place, Calcutta 1.
 French Motor Car Co. Ltd., 234-3, Lower Circular Road, Calcutta 20.
 Fritz & Singh Pvt. Ltd., 227, Netaji Subhas Road, Calcutta 1.
 F. W. Heilgers & Co. Pvt. Ltd., Chartered Bank Bldgs., Calcutta.
 G. Ambalal Export Pvt. Ltd., 11, R. N. Mukherjee Road, Calcutta 1.
 G. Basu & Co., 3, Chowringhee Approach, Calcutta 13.
 G. D. Pharmaceuticals Private Ltd., 9, Girish Avenue, Calcutta-3.
 G. Gerambhai Exports Pvt. Ltd., G. P. O. Box No. 157, Calcutta 1.
 Ganesan P. N. & Sons, P-35, India Exchange Place, Calcutta 1.
 Ganesh Export & Import Co., 18A, Rupchand Roy Street, Calcutta 7.
 Ganga Saran & Sons Pvt. Ltd., 1, Gilson Lane, Calcutta 1.
 Ganges Agencies Pvt. Ltd., 32, Cross Street, Calcutta 7.
 Ganges Mfg. Co. Ltd., 7, Council House Street, Calcutta 1.
 Ganges River Transport, 27, Bentinck Street, Calcutta 1.
 Ganges Rope Co. Ltd., 2, Fairlie Place, Calcutta 1.

General Commercial Corpn., 41, Upendra Banerjee Road, Calcutta 54.
 General Electric Co. of India Pvt. Ltd., Magnet House, 6, Chittaranjan Avenue, Calcutta 13.
 General Fibre Dealers Ltd., India Exchange, Building, Calcutta 1.
 General Industrial Society Ltd., 8, India Exchange Place, Calcutta 1.
 General Industries Corporation, 11, Rowdon Street, Calcutta-16.
 General Machinery Trading Co., 14-2, Old China Bazar Street, Calcutta 1.
 General Merchandise Dealers Ltd., 135, BRBB Road, Calcutta 1.
 General Produce Co. Ltd., India Exchange, Calcutta 1.
 General Radio & Appliances Pvt. Ltd., 3, Madan Street, Calcutta 13.
 General Trading Agency, P-569, Lake Terrace Extension, Calcutta-29.
 General Trading Corpn. Ltd., 8-B, Lall Bazar, Street, Calcutta 1.
 Geo Miller & Co. Ltd., 7, Hastings Street, Calcutta 1.
 Geoffrey Manners & Co. Pvt. Ltd., 2, Saklat Place, Calcutta 13.
 Geologists' Syndicate Private Ltd., 137, Canning Street, Calcutta 1.
 George Spencer Moulton & Co. (India) Pvt. Ltd., 11 & 12, Esplanade Mansions Calcutta 1.
 George Vint & Bhalla (I) Pvt. Ltd., 2, BAC Street, Calcutta 13.
 Germeline Ltd., 173, Sarat Ghose Garden Road, Calcutta 31.
 Gestetner Duplicators Pvt. Ltd., 18, Rabindra Sarani, Calcutta 1.
 Getz Bros. & Co., Inc., 9, Brabourne Road, Calcutta 1.
 Giddings Pvt. Ltd., H. C., 3, C. R. Avenue, Calcutta 13.
 Gienme Traders Ltd., 26, Nakuleswar Bhattacharya Lane, Calcutta 26.
 Gillanders Arbuthnot & Co. Ltd., Gillander House, Netaji Subhas Road, Calcutta 1.
 Gladstone Lyall & Co., Ltd., 4, Fairlie Place, Calcutta 1.
 Glaxo Laboratories (India) Pvt. Ltd., 50, Hide Road, Kidderpore, Calcutta 27.
 Globe Machinery (India), 24, Strand Road, Calcutta 1.
 Gluconate Ltd., 23, Carnac Street, Calcutta 16.
 Godrej & Boyce Mfg. Co. Ltd., 23A, N. S. Road, Calcutta 1.
 Goodman & Co. (India) Pvt. Ltd., 38, Netaji Subhas Road, Calcutta 1.
 Goodyear India Ltd., 225C, Acharya J. B. Road, Calcutta 20.
 Gopiram Hardeodass, 2, Brabourne Road, Calcutta 1.
 Grams Trading Co. (India) Pvt. Ltd., 6, Lyons Range, Calcutta 1.
 Gramophone Co. of India P. Ltd., 33, Jessore Road, Dum Dum, Calcutta 28.
 Grant Advertising International, Inc., Advertising Agents & Consultants, 16, Shakespeare Sarani, Calcutta-16; Phone: 445824-5-6, Grams: 'GRANTCHI'; Bombay address; Lotus House, Marine Lines, Bombay-1; Phone: 291222, Grams: 'GRANTCHI'; Chief Divisional Manager: Mr. S. Chatterji; Branches: Madras & New Delhi (37 Branches all over the World).
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 Greaves Cotton & Co. Ltd., 16, Hare Street, Calcutta 1.
 Greaves Cotton & Crompton Parkinson Pvt. Ltd., 4, Mission Row Extension, Calcutta 1.
 Gresham & Craven of India Pvt. Ltd., 22, Gobra Road, Calcutta 14.
 Griplex (India) Ltd., C-6, Gillander House, 8, Netaji Subhas Road, Calcutta 1.
 Guest Keen Williams Ltd., Jeevan Deep, 1, Middleton Street, Calcutta 16.

Guha Rice Company, 22, Amratolla Street, Calcutta 1.
 Gungadur Banerjee & Co. Pvt. Ltd., Bakulia House, Post Box No. 10606, Kidderpore, Calcutta 23.
 Gunpatroy Pvt. Ltd., Mica House, 2, Pretoria Street, Calcutta 16.
 Gupta Brothers P. Ltd., 47, Theatre Road, Calcutta 16.
 Gupta S. D. & Co. Ltd., Asoke Park, Bansdhani Road, Tollygunge, Calcutta 33.
 Gutgutia & Co., K. N., 33, N. Subhas Road, Calcutta 1.
 G. S. Emporium (Agency) Ltd., 16, India Exchange Place, Calcutta 1.
 Guddar Kahora Coal Mines Ltd., 22-B, Netaji Subhas Road, Calcutta 1.
 Gwalior Webbing Co. Ltd., 15, India Exchange Place, Calcutta 1.
 Haji Munna Miah & Co. Pvt. Ltd., 23, Russa Road South, Calcutta 33.
 Hall & Anderson Ltd., 31, Chowringhee Road, Calcutta 16.
 Halley & Co. Ltd., J., 3, Mangoe Lane, Calcutta 1.
 Halwasiya Pvt. Ltd., 46/1-A, Chowringhee Road, Calcutta 16.
 Hamilton & Co. Pvt. 8, Old Court House Street, Calcutta 1.
 Hannemann Publishing Co. Pvt. Ltd., 165, Bepin Behary Ganguly Street, Calcutta 12.
 Hanumanbax Surajmali Pvt. Ltd., 20, R. N. Mukherjee Road, Calcutta 1.
 Harbans Lal Malhotra & Sons P. Ltd., 12, New CIT Road, Calcutta 12.
 Haricharan Shyamunder 49-1-1, Cotton Street, Calcutta 7.
 Harrisons & Crosfield Ltd., 6, Church Lane, Calcutta 1.
 Harshadray Pvt. Ltd., 22, Brabourne Road, Calcutta 1.
 Hary Stone Lime Co., 640, Rabindra Sarani, Calcutta 3.
 Hauer Trading Co., 7, Stephen House, Calcutta 1.
 Haworth, W. & Co. Ltd., 23/A, Netaji Subhas Road, Calcutta 1.
 Head Wrigthson India Ltd., 6A, Middleton Street, Calcutta 16.
 Heath & Co. (Calcutta) Pvt. Ltd., 11, Weston Street, Calcutta 13.
 Heatly & Gresham Ltd., 31, Chittaranjan Avenue, Calcutta 17.
 Hein Lehmann (India) Ltd., 16, Hare Street, Calcutta 1.
 Henderson George & Co. Ltd., 4, Clive Row, Calcutta 1.
 Henry Morgan & Co., 71-A, Netaji Subhas Road, Calcutta 1.
 Herbertsons Ltd., 48, Stephen House, Dalhousie Square, Calcutta 1.
 Heroes Engineering Works Private Ltd., 20, Paul Street, Calcutta-4.
 Hewitt Robins Inc., 5-A, Lord Sinha Road, Calcutta 16.
 H. G. Fewkes & Co. Ltd., 44-B, Wellesley Street, Calcutta 16.
 Hill Elliot & Co. Pvt. Ltd., 22, Chittaranjan Avenue, Calcutta 13.
 Hill Green Co. of India, 12-B, Netaji Subhas Road, Calcutta 1.
 Himani Pvt. Ltd., 3, Khelat Babu Lane, Calcutta 2.
 Hind Associated Corporation Pvt. Ltd., P. 23-24, Radha Bazar Street, Calcutta 1.
 Hind Ceramics Ltd., Stephen House, 4, Dalhousie Sq. (E), Calcutta 1.
 Hind Construction & Engineering Co. Ltd., 9, Brabourne Road, Calcutta 1.
 Hind General Mercantile Agency Ltd., 8, Lyons Range, Calcutta-1.
 Hind General Trading Co. P. Ltd., 59/60, Strand Road, Calcutta 1.
 Hind Refractories Ltd., 135, Beplabi Rashbehari Basu Road, Calcutta 1.
 Hind Wire Industries Ltd., P-16, Kalakar Street, Calcutta 7.
 Hindustan Aluminium Corporation Ltd., 27-B, Carnac Street, Calcutta 16.
 Hindustan Auto Distributors, 17, Government Place East, Calcutta-1.
 Hindustan General Electric Corpn. Ltd., 25, Brabourne Road, Calcutta 1.

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 Calcutta Sales Office: 20/A, Carnac Street, Calcutta-16; Phone: 449185, Grams: 'FERODOSTAN'; Head Office & Factory: Bombay-Agra Road, Ghatkopar, Bombay-77 (AS); Phone: 581491 (9 Lines), Grams: 'FERODOSTAN'; Sales Offices: Madras & New Delhi; Manufacturers of 'Firefly' Asbestos Textiles, Compressed Asbestors Fibre Jointings, Asbestos Millboard, Limpet Asbestos Sheets 'Ferodo' Brake & Clutch Linings and Ferobestos.

H. Guru Instruments P. Ltd., 121, Manicktala Main Road, Calcutta 54.
 Hindustan Investment Corpn. Ltd., 8, Royal Exchange Place, Calcutta 1.
 Hindustan Lever Ltd., Ilaco House, 1 & 3, Brabourne Road, Calcutta 1.
 Hindustan Motors Ltd., 15, I. E. Place, Calcutta 1.
 Hindustan Motor Corporation Ltd., 20, Old Court House, Street, Calcutta 1.
 Hindustan Times, 7, Hastings Street, Calcutta 1.
 Hindustan Trading Co., 71A, Netaji Subhas Road, Calcutta 1.
 Hindustan Building Society Ltd., Hindustan Building, 4, Chittaranjan Avenue, Calcutta 13.
 Hindustan Chemical & Industrial Corporation, 22, Brabourne Road, Calcutta 1.
 Hindustan Dealers Ltd., 54, Ezra Street, Calcutta 1.
 Hindustan Development Corpn. Ltd., Hindu Family Bldgs., 27, Sir R. N. Mukherjee, Road, Calcutta 1.
 Hindustan Gas & Industries Ltd., 36, Ganesh Ch. Avenue, Calcutta 13.
 Hindustan General Trading Co. Pvt. Ltd., 208, Mahatma Gandhi Road, Calcutta 7.
 Hindustan Housing & Land Development Trust Ltd., 18, Rabindra Sarani, Calcutta 1.
 Hindustan Engineering & Construction Co., 2, Church Lane, Calcutta 1.
 Hindustan Musical Products Ltd., 6/1, Akur Dutt Lane, Calcutta 12.
 Hindustan National Glass Mfg. Co. Ltd., 2, Wellesley Place, Calcutta 1.
 Hindustan Pilkington Glass Works Ltd., 4, Chittaranjan Avenue, Calcutta 13.
 Hindustan Refractories & Ceramics Pvt. Ltd., 20, Netaji Subhas Road, Calcutta 1.
 Hindustan Rubber Works Ltd., 14, Ballygunge Station Road, Calcutta-19.
 Hindustan Sheet & Metal Co. Pvt. Ltd., 9, Clive Row, Calcutta 1.
 Hindustan Small Tools Pvt. Ltd., 4, Mandvilla Gardens, Calcutta 19.
 Hindustan Trading Co., 18-4, Akur Dutt Lane, Calcutta 12.
 Hindustan Wire & Metal Products Ltd., Nicco House, 2, Hare Street, Calcutta 1.
 Hoare, Miller & Co. Ltd., 5, Fairlie Place, Calcutta 1.
 Hoechst Dyes & Chemicals Ltd., 6, Ganesh Chandra Avenue, Calcutta 13.
 Holland & Co. Ltd., 18, British India Street, Calcutta 1.
 H. P. Khandelwal & Co., 1-B, Old Post Office Street, Calcutta 1.
 Holmes Wilson & Co. Ltd., Stephen House, 4, Dalhousie Sq. East, Calcutta 1.
 Hooghly Docking & Engg. Co. Ltd., 6, Howrah Road, Salkia, Howrah.
 Hooghly Printing Co. Ltd., 8, Clive Row, Calcutta 1.
 Hosen Kasam Dada (India) Ltd., 26, Amratolla Street, Calcutta 1.
 Howrah Engineering Concern Pvt. Ltd., 153/154, Madhusudan Pal Choudhury Lane, Howrah.
 Howrah Motor Co. P. Ltd., 16, R.N. Mukherjee Road, Calcutta 1.
 Howrah Trading Co. Ltd., 144/145, Jogen-dranath Mukherjee Road, Howrah, Calcutta 7.
 Hyderabad Allwyn Metal Works Ltd., 14, Radha Bazar Lane, Calcutta 1.

Hyderabad Asbestos Cement Products Ltd., 2, Brabourne Road, Block No. 2 (2nd floor), Calcutta 1.

Hydrolifts & Equipment P. Ltd., 10/1, Princep Street, Calcutta 13.

Ibcon Pvt. Ltd., 5, Russel Street, Calcutta 16.

I. B. M. World Trade Corp., Mackinnon Mackenzie Bldg., 16-18, Strand Road, Calcutta 1.

Ilford Selo (India) Pvt. Ltd., 15, Chittaranjan Avenue, Calcutta 13.

Imperial Chemical Industries (India) Pvt. Ltd., 34, Chowringhee, Calcutta 16.

Imperial Hardware Co., 6, Gariahat Road (South), Calcutta-13; Manufacturers of quality Steel Furniture for every purpose and Sheet Metal Fabricators to Specifications: Phone: 460916.

Inchek Tyres Ltd., 19, Chowringhee Road, Calcutta 13.

Indequip Ltd., 1 & 2, Old Court House Street, Calcutta 1.

Indershand Rajgarhia & Sons Pvt. Ltd., 5, Hungerford Street, Calcutta 16.

Inderstro (India) Agency, 138, Canning Street, Calcutta 1.

India Alkalies Ltd., 5, Garstin Place, Calcutta 1.

India Carbon Ltd., 6, Old Post office Street, Calcutta 1.

India Engineering Co., 20, Sree Krishna Bhakat Lane, Howrah, Calcutta 1.

India Engineering Corp., 20, Strand Road, Calcutta 1.

India Factory, 115/A, Amherst Street, Calcutta 9.

India Foils Ltd., 11, Sooterkin Street, Calcutta 13.

India Furnace Co. Pvt. Ltd., 27-29, Brabourne Road, Calcutta 1.

India General Navigation & Railway Co. Ltd., 4, Fairlie Place, Calcutta 1.

India Jute Co. Ltd., 16, Strand Road, Calcutta 1.

India Linoleums Ltd., 14, Radha Bazar Lane, Calcutta 1.

India Machinery Co. Ltd., Dassenagar, Howrah, Calcutta 5.

India Moulding Co., C-2, Bharat Bhawan, 3, Chittaranjan Avenue, Calcutta 13.

India Potteries Ltd., 91, Dharamtolla Street, Calcutta 13.

India Refractories Ltd., 23/24, Radha Bazar Street, Calcutta 1.

India Shipping Co. Ltd., India Exchange, Calcutta 1.

India Steamship Co. Ltd., India Steamship House, 21, Old Court House Street, Calcutta 1.

India Trades Corporation, 4, Lyons Range, Calcutta 1.

India Tyre & Rubber Co. (India) Pvt. Ltd. 1, Waterloo Street, Calcutta 1.

India United Chemical Distributors Ltd., 25, Swallow Lane, Calcutta 1.

Indian Aluminium Co. Ltd., 1, Middleton Street, Calcutta-16.

Indian Cable Co. Ltd., 9, Hare Street, Calcutta 1.

Indian Hume Pipe Co. Ltd., 123-A, Rash Behari Avenue, Calcutta 29.

Indian Import & Export Co. Pvt. Ltd., 36, Ezra Street, Calcutta 1.

Indian Iron & Steel Co. Ltd., 12, Mission Row, Calcutta 1.

Indian Metal Industries, 113A, Monohardas Katra, Calcutta 7.

Indian Mineral Industries 22-1, 22-C, Dum Dum Road, Calcutta 2.

Indian Minerals & Associated Industries, 12-B, Netaji Subhas Road, Calcutta 1.

Indian Mining Federation, 135, Biplabi Rashbehari Basu Road, Calcutta 1.

Indian Molasses Co. Pvt. Ltd., 232A, Acharya J. B. Road, Calcutta 7.

Indian Oxygen Ltd., 48/1, Diamond Harbour Road, Calcutta 27.

Indian Patent Stone Co. Ltd., Chartered Bldg., Netaji Subhas Road, Calcutta 1.

Indian Photo Engraving Co. Ltd., 28, Beniatola Lane Calcutta 9.

Indian Pin Mfg. Co. P. Ltd., 14/1B, Ezra Street, Calcutta 1.

Indian Publicity Bureau Pvt. Ltd., 6/2, Madan Street, Calcutta 13.

Indian Standard Wagon Co. Ltd., 12, Mission Row, Calcutta 1.

Indian Steel & Wire Products Ltd., 7, Wellesley Place, Calcutta 1.

Indian Terrazo & Patent Floors Ltd., 16, Mangoe Lane, Calcutta 1.

Indian Textiles Co. Ltd., Great Eastern Hotel Area, Calcutta 1.

Indian Tools Corp., 7, Jorabagan Street, Calcutta 6.

Indian Tube Co. Ltd., 41, Chowringhee Road, Calcutta 16.

Indian Turpentine and Rosin Co. Ltd., 22, Salt Gota Lane, Howrah, Calcutta 1.

Indian Union Traders Ltd., 12, Dalhousie Square East, Calcutta 1.

Indian Wood Products Co. Ltd., Gillander House, Netaji Subhas Road, Calcutta 1.

Indo-American Commerce Pvt. Ltd., 35, Chittaranjan Avenue, Calcutta 12.

Indo-British Trading Syndicate, 192-B, Chittaranjan Avenue, Calcutta 7.

Indo-Burma Forest Syndicate, 65-1, Dharmatolla Street, Calcutta 7.

Indo-Furma Petroleum Co. Ltd., Gillander House, Netaji Subhas Road, Calcutta 1.

Indo-European Agency Pvt. Ltd., 67, Ezra Street, Calcutta 1.

Indo-European Machinery Co. Pvt. Ltd., 5, Bentinck Street, Calcutta 1.

Indo-Japanese Industries Ltd., 150, Dharmatolla Street, Calcutta 13.

Indo-Mineral Corp., 32, J. L. Bazaz Street, Calcutta 7.

Indo-Swiss Trading Co. Pvt. Ltd., Kent House, 14, Ganesh Chandra Avenue, Calcutta 13.

Indo-Trading Co., 18, Netaji Subhas Road, Calcutta 1.

Indo-World Trading Co. Ltd., 10, Armenian Street, Calcutta 1.

Indra Singh & Sons. (Pvt.) Ltd., 7, Wellesley Place, Calcutta 1.

Industrial Accessories Supply Corp., 47, Kalidas Patimundi Lane, Calcutta 26.

Industrial Chemical Corp. Ltd., 22, Brabourne Road, Calcutta 1.

Industrial Corporation, 138, BRBB Road, Calcutta 1.

Industrial Gases, 15, Ganesh Chandra Avenue, Calcutta 13.

Industrial Importers Pvt. Ltd., 34, Stephen House, 4, Dalhousie Scr. East, Calcutta 1.

Industrial Instrument Co., P. 34, Mission Row Extension, Calcutta 13.

Industrial Supply & Agency Co., 35, Chittaranjan Avenue, Calcutta 12.

Industrial Syndicate Pvt. Ltd., 119-B, Ripon Street, Calcutta 16.

Industries Syndicate, 7, C. R. Avenue, Calcutta 13.

Ingersoll-Rand (India) Pvt. Ltd., 7, Wellesley Place, Calcutta 1.

Inter-Continental Trading Corp., 12-B, Netaji Subhas Road, Calcutta 1.

International Combustion (India) Pvt. Ltd., 101, Park Street, Calcutta 16.

International Commercial Agencies, Ltd., 228, M. G. Road, Calcutta 7.

International Electric & Engineering Co., 12, Lower Chitpur Road, Calcutta 1.

International Engineering Co., 7-1/C, Lindsay Street, Calcutta 16.

International Equipment Corp. Pvt. Ltd., 7, Hare Street, Calcutta 1.

International Exporters Pvt. Ltd., 5, Synagogue Street, Calcutta 1.

International General Electric Co. (India) Pvt. Ltd., 7, Wellesley Place, Calcutta 1.

International Linkers P. Ltd., P-22, Swallow Lane, Calcutta 1.

International Lubricants P. Ltd., 12-A, Ashutosh Mukherjee Road, Calcutta 20.

International Refrigeration Engineering Co., 5/2, Ripon Street, Calcutta 16.

International Remedies P. Ltd., 66/40, Porulkutch Road, Calcutta 34.

International Sales Corp. Pvt. Ltd., 48, Circus Avenue, Calcutta 17.

International Tyres & Motors Pvt. Ltd., 2, Rowland Road, Calcutta 20.

International Tools Co., 67/B, Netaji Subhas Road, Calcutta 1.

Inter Sales (India), 62, Netaji Subhas Road, Calcutta 1.

Intertrade Publication (India) P. Ltd., 55, Gariahat Road, Calcutta-19.

Irmeco P. Ltd., 44/2, D. H. Road, Calcutta 27.

Ispahani Ltd., 51, Ezra Street, Calcutta 1.

Italab Pvt. Ltd., 10, Lall Bazar Street, Calcutta 1.

Ivan Jones Ltd., 18-B, Brabourne Road, Calcutta 1.

Jagannath Gupta & Co. Ltd., 7-B, Clive Row, Calcutta 1.

Jagdishprashad Pannalal & Co. Pvt. Ltd., 7, Amaratolla Street, Calcutta 1.

Jain & Co., P. 21/22, Radha Bazar Street, Calcutta 1.

Jaipur Udyog Ltd., 11, Clive Row, Calcutta 1.

Jaipuria Group of Industries, 33, Netaji Subhas Road, Calcutta 1.

Jaiswal Trading Corporation, 62/1-A, Netaji Subhas Road, Calcutta 1.

Jalan Bros. Pvt. Ltd., 178, Mahatma Gandhi Road, Calcutta 7.

Jalan Industries Pvt. Ltd., 62, Ballygunge Circular Road, Calcutta 19.

James Finlay & Co. Ltd., 2, Netaji Subhas Road, Calcutta 1.

James Glendye & Co. Pvt. Ltd., 5, Chowringhee, Calcutta 13.

James Lord & Sons Ltd., 19, Strand Road, Calcutta 1.

James Murray & Co. Pvt. Ltd., 5, Old Court House Street, Calcutta 1.

James Warren & Co., Ltd., 31, Chowringhee Road, Calcutta 16.

James Wright Ltd., 22, Chittaranjan Avenue, Calcutta 13.

Jamni Venkataramanayya & Sons, 132-1, Harrison Road, Calcutta 7.

Jardine Henderson Ltd., 4, Clive Row, Calcutta 1.

Java Bengal Line, 5 & 7, Netaji Subhas Road, Calcutta 1.

Jayanti Shipping Co. Ltd., 20, British India Street, Calcutta 1.

Jay Engineering Works Ltd., 183A, Prince Anvar Shah Road, Calcutta 31.

Jayems Engineering Co., 22, Brabourne Road, Calcutta 1.

Jaynarain Gobindparsad Pvt. Ltd., 1, Jankidas Lane, Calcutta 7.

Jayer & Co., 12-B, Netaji Subhas Road, Calcutta 1.

Jay Shree Tea & Industries Ltd., India Exchange, Calcutta 1.

Jayshree Textiles & Industries Ltd., P/46A, C.I.T. Scheme XLV, Radha Bazar Lane, Calcutta 1.

J. B. Advani & Co. Pvt. Ltd., 27, Netaji Subhas Road, Calcutta 1.

J. B. Dastoor & Co., 28, Grant Street, Calcutta 13.

J. K. Dey & Sons, 13, Old China Bazar Street, Calcutta 1.

J. Nagardas & Co., 55/3, Canning Street, Calcutta 1.

Jeena & Co., 25, Netaji Subhas Road, Calcutta 1.

Jestmili Jaichandlal, 113, Netaji Subhas Road, Calcutta 1.

Jeewanlal (1929) Ltd., 23, Brabourne Road, Calcutta 1.

Jenson & Nicholson (India) Ltd., 225, L. C. Road, Calcutta 20.

Jesraj Jiwanram Pvt. Ltd., 20, British India Street, Calcutta 1.

Jessop & Co. Ltd., 63, Netaji Subhas Road, Calcutta 1.

Jessore Comb Industries Co., 117, Balithakhana Road, Calcutta 9.

Jewell Filter Co. Ltd., 28, Chittaranjan Avenue, Calcutta 12.

Jewraj Chunilal & Co. Ltd., 161-1, Harrison Road, Calcutta 7.

Jharia Firebricks & Pottery Works (Private) Ltd., 3, Princep Street, Calcutta 13.
Jiwanram Sheoduttral, P11/12, C.I.T. Road, Entally, Calcutta 14.
J. J. H. Industries Pvt. Ltd., 9, Transport Depot Road, Calcutta 27.
J. K. Industries Pvt. Ltd., 7, Council House Street, Calcutta 1.
Jogendra Nath Ghose & Sons, 64, Ballygunge Gardens, Calcutta-19.
John Fowler India Ltd., 136-A, Rash Behari Avenue, Calcutta 29.
John Herbert & Co. Pvt. Ltd., Canning House, 137, Canning Street, Calcutta 1.
John Paterson & Co. (India) Ltd., 96, Garden Reach Road, Calcutta 23.
John Thompson (India) Private Ltd., 4, Fairlie Place, Calcutta 1.
Johnston Pumps India Ltd., 2, Fairlie Place, Calcutta 1.
Jost's Engineering Co. Ltd., 19, British Indian Street, Calcutta 1.
Jugantar Ltd., 14, Ananda Chatterjee Lane, 72, Baghbazar Street, Calcutta 3.
Jute Investment Co. Ltd., 2, Fairlie Place, Calcutta 1.
K. Hore & Co., P-17, New C.I.T. Road, Entally, Calcutta-14.
K. K. Roy (Private) Ltd., 55, Gariahat Road, Calcutta-19.
K. L. Dutt & Co. Private Ltd., 18, Netaji Subhas Road, Calcutta 1.
K. P. Basu Publishing Co., 42, Cornwallis Street, Calcutta-6.
Kailash Financiers P. Ltd., P-50, Princep Street, Calcutta 13.
Kajaria Bros. Pvt. Ltd., 9, Jagmohan Mullick Lane, Barabazar, Calcutta 7.
Kalimpong Electric Supply Co. Ltd., 16, Ganesh Chandra Avenue, Calcutta 13.
Kalinga Tubes Ltd., 33, Chittaranjan Avenue, Calcutta 12.
Kalyanji Mavji & Co., 14, Netaji Subhas Road, Calcutta 1.
Kalyanpur Lime & Cement Works Ltd., 2, Clive Row, Calcutta 1.
Kamala Sheet Metal Industries P. Ltd., 98-99, Beliaghata Main Road, Calcutta 10.
Kamalalaya (Export) Private Ltd., 14 & 15, Ballygunge Station Road, Calcutta-19.
Kamalalaya Stores Pvt. Ltd., 156-A, Dharamtala Street, Calcutta 13.
Kanodia & Co., Post Box No. 6724, 149, Cotton Street, Calcutta 7.
Kanji Panachand Pvt. Ltd., 33, Armenian Street, Calcutta 1.
Kanji Shavji Parekh Pvt. Ltd., B1 H, 55, Canning Street, Calcutta 1.
Kanoi Group of Cos., 20, R. N. Mukherjee Road, Calcutta 1.
Kanoi (India) Pvt. Ltd., 3, Transport Depot Road, Calcutta 27.
Kanoria Chemicals Industries Ltd., 9, Brabourne Road, Calcutta 1.
Kanoria Co. Ltd., Bombay Mutual Buildings, 9, Brabourne Road, Calcutta 1.
Karamchand Thapar & Bros. (Coal Sales) Ltd., Thapar House, 25, Brabourne Road, Calcutta 1.
Karam Chand Thapar & Sons Ltd., 25, Brabourne Road, Calcutta 1.
Kashiram Banaresilal Pvt. Ltd., 83, Old China Bazar Street, Calcutta 1.
Kaybee & Co., 60/1, Chowringhee Road, Calcutta 20.
Kaycee Industries Ltd., 2, Woodburn Court, 10, Elgin Road, Calcutta 20.
Kedarnath Parsotamdas & Co. Pvt. Ltd., 37, Netaji Subhas Road, Calcutta 1.
Kelvin Jute Co. Ltd., 3, Netaji Subhas Road, Calcutta 1.
Kemp & Co. Ltd., 32-C, Chittaranjan Avenue, Calcutta 12.
Keshavlal P. Gorsia, 24, Strand Road, Calcutta 1.
Keshoram Rayon, 4 A, Council House Street, Calcutta 1.
Kettlewell Bullen & Co. Ltd., 21, Strand Road, Calcutta 1.

Keyal Brothers Ltd., 244, Upper Chitpur Road, Calcutta 3.
Keymer Bagshawe & Co. (India) Pvt. Ltd., 22, Strand Road, Calcutta 1.
Khaitan & Co., 18, Old Post Office Street, Calcutta 1.
Khaitan Sons & Co., 26, Chittaranjan Avenue, Calcutta 12.
Khan Pal Chowdhury & Co. Pvt. Ltd., 71-A, Netaji Subhas Road, Calcutta 1.
Khas Kenda Colliery Pvt. Ltd., 135, Biplabi Rashbehari Basu Road, Calcutta 1.
Khamchand Rajkumar, 33, Netaji Subhas Road, Calcutta 1.
Khemka & Co. (Agencies) Pvt. Ltd., 31/32, India Exchange Place, Calcutta 1.
Khandelwal Bros. Pvt. Ltd., 33, Netaji Subhas Road, Calcutta 1.
Khan Gwan Co., Calcutta Pvt. Ltd., 4, Robert Road, Dum Dum, Calcutta 28.
Kilachand Devchand & Co. Pvt. Ltd., 2, Brabourne Road, Calcutta 1.
Kilburn & Co. Ltd., 2, Fairlie Place, Calcutta 1.
Killick Industries Ltd., D2, Gillander House, 8, Netaji Subhas Road, Calcutta 1.
Killick Nixon & Co. Pvt. Ltd., 130, Foreshore Road, Howrah, Calcutta 1.
King & Co., 90-6A, M. G. Road, Calcutta 7.
Kinlab Pvt. Ltd., 25, Marquis Street, Calcutta 16.
Kishanlal Deepchand, 25, Netaji Subhas Road, Calcutta 1.
K. L. M. Royal Dutch Airlines Ltd., 1, Middleton Street, Calcutta 16.
Kodak Ltd., 17, Park Street, Calcutta 16.
Kores (India) Ltd., 1 & 2, Brabourne Road, Calcutta 1.
Kothari M. D. & Co. Pvt. Ltd., 15, India Exchange Place, Calcutta 1.
Kothari Organisation, 12 India Exchange Place, Calcutta 1.
Kothari Plantation & Industries Ltd., 8, India Exchange Place, Calcutta 1.
Kothari & Co., 71, Ganesh Chandra Avenue, Calcutta 13.
Krishna Chandra Dutta (Spice) Pvt. Ltd., 235, Maharshi Devendra Road, Calcutta 7.
Krishna Industries, 220, Naskarpara Ghnsuri, Howrah.
Krishna Silicate & Glass Works Ltd., Raja S. C. Mullick Road, Calcutta 32.
Krishnalal Thirani & Co. Ltd., 3, Brabourne Road, Calcutta 1.
Kuljian Corporation (India) Pvt. Ltd., 24-B, Park Street, Calcutta 16.
Kumar & Co. Ltd., 21, Maharshi Debendra Road, Calcutta 7.
Kumar Bros. & Co., Ltd., 14, Raja Wood-munt Street, Calcutta 1.
Kundla Industrial Corporation, 23, Canning Street, Calcutta 1.
Kusum Engineering Co. Ltd., 25, Swallow Lane, Calcutta 1.
Kusum Products Ltd., 9, Brabourne Road, Calcutta 1.
Laha A. N. & Co., P. Ltd., Clive Ghat Street, Calcutta 1.
Laha Engineering Works Pvt. Ltd., 52, College Street, Calcutta 12.
Laha G. C. Pvt. Ltd., 1, Dharamtola Street, Calcutta 13.
Lakshmi Narayan Sen & Sons Ltd., 62, Chowringhee Road, Calcutta 20.
Lakshmi Produce Co. Ltd., 14, Netaji Subhas Road, Calcutta 1.
Lal & Co., H., 15, C & D Lindsay Street, Calcutta 13.
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Rostron, & Co. Pvt. Ltd., 10, Govt. Place,
East, Calcutta 1.
Roy, A. C. & Co. Ltd., 5, Mission Row
(1st Floor), Calcutta 1.
Roy Choudhury & Co., 244-B & C, Viveka-
nanda Road, Calcutta 6.
Royson & Co., 55, Gariahat Road, Calcutta
19.
R. Sen & Co. (Agents) Pvt. Ltd., 10/1,
Elgin Road, Calcutta 20.
R. Shantilal & Co. Pvt. Ltd., 87, G. T. Road,
Kotrung, Calcutta 7.
Rudra & Co. Pvt. Ltd., 32, Madan Mitter
Lane, Calcutta 6.
Rungta Sons Pvt. Ltd., P-16, Kalakar
Street, Calcutta 7.
S. A. E. (India) Ltd., 2/B, Victoria Terrace,
Calcutta 17.
S. A. Torab & Co., 55, BRBB Road, Calcutta
1.
S. B. Dandekar & Co., P-36, India Ex-
change Place, Calcutta 1.
S. D. Sethia & Co. Pvt. Ltd., F2, Clive Build-
ings, 8, Netaji Subhas Road, Calcutta 1.
S. G. Engineering Industries Ltd., 18,
Netaji Subhas Road, Calcutta 1.
S. K. Banerjee & Co., 9, Ezra Street,
Calcutta 1.
S. N. Bagla & Co., 5, Clive Row, Calcutta 1.
S. R. Batliboi & Co., 1 B, Old Post Office
Street, Calcutta 1.
S. S. Kothari & Co., 21, Old Court House
Street, Calcutta 1.
Saha, B. K. & Bros. Pvt. Ltd., 5, Pollock
Street, Calcutta 1.
Saha, C. C. Ltd., 45, Moti Sil Street,
Calcutta 13.
Saharia Industries, 1st Floor, BIF 76B, New
Alipore, Calcutta 53.
Sahu Jain Services Ltd., 11, Clive Row,
Calcutta 1.
Sales & Industries Pvt. Ltd., P. 37, CIT
Road Scheme, Calcutta 14.
Samar Singh Jayaswal Pvt. Ltd., 27-B,
Camac Street, Calcutta 16.

Samuel Osborn (India) Pvt. Ltd., 1, Acharya
Jagadish Chandra Basu Road, Calcutta 1.
Sandoz (India) Ltd., 3/A, Shakespeare
Sarani, Calcutta 16.
Sanganeria Co. Pvt. Ltd., 9, Jagmohan
Mullick Lane, Calcutta 7.
Saran Trading Co. Ltd., 15, India Exchange
Place, Calcutta 1.
Sarkar, N. R. & Co. Pvt. Ltd., Hindusthan
Bldgs., 4, Chittaranjan Avenue,
Calcutta 13.
Sarkar, S. C. & Sons Ltd., 1-1-C, College
Sqr., Calcutta 12.
Sarmas (India) Pvt. Ltd., 9, Chowringhee
Road, Calcutta 13.
Scandinavian Airlines System, 18, Park
Street, Calcutta 16.
Schreder Scovill Duncan Ltd., 31, Netaji
Subhas Road, Calcutta 1.
Scientific Dyeing & Cleaning Co. Ltd.,
23, Free School Street, Calcutta 16.
Scindia Steam Navigation Co. Ltd., 33,
Netaji Subhas Road, Calcutta 1.
Scott & Pickstock Ltd., 5, Fairlie Place,
Calcutta 1.
Scott & Saxby Ltd., Chartered Bank Build-
ings, Calcutta 1.
Screen Corp., (1938) Ltd., 76-3, Cornwallis
Street, Calcutta 6.
Seroggie Bros. (India) Ltd., 2, Clive Ghat
Street, Calcutta 1.
S. C. Sons Pvt. Ltd., 47A, Shakespeare
Sarani, Calcutta 16.
Sen Brothers, 109A/1A, BRBB Road,
Calcutta 1.
Sen & Pandit Pvt. Ltd., Mercantile Bldgs.,
Lal Bazar Street, Calcutta 1.
Sen Ray & Co. Ltd., 15, College Square,
Calcutta 12.
Sen-Raleigh Ltd., Mercantile Bldgs., Lal
Bazar Street, Calcutta 1.
Sen & Sen Pvt. Ltd., 10-A, Ram Pal Lane,
Calcutta 5.
Senairam Doongarmull, 138, Biplabi Rash-
behari Basu Road, Calcutta 1.
Sen Mukerji & Co., P-20, Radhabazar
Street, Calcutta 1.
Sett, H. L. & Sons Pvt. Ltd., 21, Jadu Pandit
Road, Calcutta 6.
S. E. A. Corp., India Pvt. Ltd., 1-22,
Swallow Lane, Calcutta 1.
S. G. R. Industries Pvt. Ltd., 10, The Mall,
Dum Dum, Calcutta 28.
Shah, P. B. & Co. 34, Netaji Subhas Road,
Calcutta 1.
Shahani, M. G. & Co. (Cal.), P. Ltd., 3,
Chittaranjan Avenue, Calcutta 13.
Shallmar Paints Ltd., 13, Camac Street,
Calcutta 16.
Shallmar Industries Pvt. Ltd., 25, Ganesh
Chandra Avenue, Calcutta 13.
Shallmar Rope Works Ltd., 14, Netaji
Subhas Road, Calcutta 1.
Shallmar Works Ltd., 6, Lyons Range,
Calcutta 1.
Shaw Wallace & Co., Ltd., Wallace House,
4/5, Bankshall Street, Calcutta 1.
Shethia S. D. & Co. Pvt. Ltd., F/2, Gillander
House, 8, Netaji Subhas Road, Calcutta 1.
Shillong Hydro Electric Ltd., 135, Princep
Street, Calcutta 13.
Shilpa-Peeth Ltd., 111-1, Gopal Lal Thakur
Road, Alambazar, Calcutta 35.
Shimwell & Bro. (Calcutta) Ltd., Chartered
Bank Buildings, Calcutta 1.
Shree Hanuman Industrial Corp., 15, India
Exchange Place, Calcutta 1.
Shree Krishna Gyanodaya Sugar Ltd., 11,
Clive Row, Calcutta 1.
Shree Krishna Rubber Works Pvt. Ltd., 5,
Mission Row, Calcutta 1.
Shree Services & Trading Co. Ltd., 15, India
Exchange Place, Calcutta 1.
Shree Sitaram Sugar Co. Ltd., 25, Brabourne
Road, Calcutta 1.
Shri Niwas Co. Pvt. Ltd., 13, Jatindra Road,
Calcutta 6.
Sidley Doears Tea Co. Ltd., 24, Netaji Subhas
Road, Calcutta 1.
Siemens India Ltd., 6, Little Russel Street,
Calcutta 16.
Sigma Engineering Co., 60, Dharamtala
Street, Calcutta 13.

Signograph Co., Signograph Bldgs., 175,
Kashinath Dutta Road, Calcutta 36.
Sikri Brothers, 35, Chowringhee Road,
Calcutta 16.
Sikri & Co., Pvt. Ltd., 55, BRBB Road,
Calcutta 1.
Simon-Carves (India) Ltd., Simon House,
Transport Depot Road, Calcutta 27.
Simplex Concrete Piles (India) Pvt. Ltd.,
103-3, Diamond Harbour Road,
Calcutta 38.
Simpson & Munro (India) Ltd., 4, Lyons
Range, Calcutta 1.
Simpson, P. D. & Co., P-33, Mission Row
Extension, Calcutta 13.
Sinclair, Murray & Co., Pvt. Ltd., 14, India
Exchange Place, Calcutta 1.
Singapore Cane Mfg. Co., 137, BRBB Road,
Calcutta 1.
Singer Sewing Machine Co., 29, Waterloo
Street, Calcutta 1.
Singhi & Company, 15, Shakespeare Sarani,
Calcutta 16.
Sinha Ghosh & Co. P. Ltd., 38, Chandni
Chowk Street, Calcutta 13.
Sinha, M. L. & Co., Pvt. Ltd., 50, Ezra Street,
P.B. No. 516, Calcutta 1.
Sirkar S. & Co., Ltd., 125, Bowbazar Street,
Calcutta 12.
Sirsilk Ltd., 14, Radha Bazar Lane, Cal-
cutta 1.
Sizing & Finishing Materials Co., 60,
Dharamtala Street, Calcutta 13.
S. K. Chakravarti Ltd., 1/1B, Mission Row,
Calcutta 1.
S. K. F. Ball-Bearing Co. Pvt. Ltd., 11,
Rajendranath Mukherjee Road, Calcutta 1.
S. K. Mitra Pvt. Ltd., 10, Portuguese Church
Street, Calcutta 1.
S. M. Ali Pvt. Ltd., 40B, Chittaranjan
Avenue, Calcutta 12.
Small Tools Manufacturing Co. of India Ltd.,
P-17, Mission Row Extension, Calcutta 13.
Smith B. H. & Co., Pvt. Ltd., 46, Dharam-
tolla Street, Calcutta 13.
Smith Stanistreet & Co., Ltd., 18, Convent
Road, Calcutta 14.
Snow White Food Product Co. Ltd., 4, Fairlie
Place, Calcutta 1.
Sohan Lal Pachisia & Co., 9, India Exchange
Place, Calcutta 1.
Somani & Co. Pvt. Ltd., 21A, BRBB Road,
Calcutta 1.
Sone Valley Portland Cement Co., Ltd.,
11, Clive Row, Calcutta 1.
Soolesman Dadabhoi Bros. Ltd., 130, Lower
Chitpur Road, Calcutta 1.
Soor, Neogi Coomar & Co. Pvt. Ltd., 39,
College Street, Calcutta 12.
Soorajmull Nagarmull, 8, Dalhousie Square
East, Calcutta 1.
Spark Engineering Co., 1, Sadhu Taracharan
Road, Calcutta 26.
Spence Ltd., P-38, Mission Row Extension,
Calcutta 1.
Spencer & Co., Ltd., 70, Diamond Harbour
Road, Calcutta 23.
Shree Krishna Private Ltd., 20, Mangoe
Lane, Calcutta 1.
Sree Saraswati Press Ltd., 32, Acharya
Prafulla Chandra Road, Calcutta 9.
Srinathpur Tea Co. Ltd., 12/B, Netaji
Subhas Road, Calcutta 1.
Stadmed Pvt. Ltd., 84, Chowringhee Road,
Calcutta 20.
Standard Engineering Co., Ltd., 62, Bow
Bazar Street, Calcutta 12.
Standard Literature Co., Ltd., 13/1, Old
Court House Street, Calcutta 1.
Standard Pharmaceuticals Ltd., 67,
Dr. Suresh Sarkar Road, Calcutta 1.
Standard Radio & Winding House Private
Ltd., Brabourne Court, 1, Chandney
Chowk Street, Calcutta 13.
Standard Steels (India) Private Ltd., P-31,
Mission Row Extn., Calcutta 13.
Statesman Ltd., Statesman House, 4,
Chowringhee Square, Calcutta 1.
Steam & Mining Equipment (India) Ltd.
77, Park Street, Calcutta-17.
Steel & Allied Products Ltd., 6, Little Russel
Street, Calcutta 16.

- Steel Box P. Ltd., 13A, Umakanta Sen Lane, Calcutta 30.
- Steel Brothers & Co., Ltd., Gillander House, Netaji Subhas Road, Calcutta 1.
- Steel Equipment & Construction Ltd., 22, Grand Trunk Road, Lillooah, Howrah.
- Steel, R. & Co. Ltd., Chartered Bank Buildings, Calcutta 1.
- Steelverse & Co. (1960) Pvt. Ltd., 5, Commercial Buildings, Calcutta 1.
- Stephens & Co., Ltd., 23, Chowringhee, Calcutta 13.
- Sterling India Co. Pvt. Ltd., 68/B, Dilkusha Street, Calcutta 17.
- Stewarts & Lloyds of India Pvt. Ltd., 41, Chowringhee Road, Calcutta 16.
- Stone J. & Co. (India) Pvt. Ltd., 16, Taratolla Road, Calcutta 53.
- Stores Supply & Mfg. Co., 8-B, Lal Bazar Street, Calcutta 1.
- Structural Waterproofing Co. Pvt. Ltd., 21-1, Dover Road, Calcutta 19.
- Subol Dutt & Sons Pvt. Ltd., Subol Dutt Bldgs., 13, Brabourne Road, Calcutta 1.
- Sudsons Pvt. Ltd., 3, Esplanade East, Calcutta 1.
- Sulekha Works Ltd., Jadavpur, Calcutta 32.
- Sungma Tea Co. Ltd., 3, Netaji Subhas Road, Calcutta 1.
- Superintendence Co. of India Pvt. Ltd., 31, 32, 33, CIT Road, Entally, Calcutta 14.
- Sur B. & Co., 69, Dr. Suresh Sarkar Road, Entally, Calcutta 14.
- Sur Enamel & Stamping Works Pvt. Ltd., 24, Middle Road, Calcutta 14.
- Sur Industries Pvt. Ltd., 163, Acharya J. B. Road, Calcutta 14.
- Surajmull Chhotaylall (Pvt.) Ltd., 57, Burtolla Street, Calcutta 7.
- Surensone Pvt. Ltd., 3A, Raja Kali Kissen Lane, Calcutta 5.
- Surveyors & Salvagers Ltd., Temple Chambers, 6, Old Post Office Street, Calcutta 1.
- Sutton & Sons Ltd., 13-D, Russell Street, Calcutta 16.
- Swaiika Group of Industries, P.N.B. House, 18-B, Brabourne Road, Calcutta 1.
- Swatantra Bharat Trading Co. Ltd., 1/2/286A, Lake Gardens, Calcutta 45.
- Symond Distributors Pvt. Ltd., 18, Netaji Subhas Road, Calcutta 1.
- Synthetic Moulders Ltd., 42, Biren Roy Road West, Calcutta 23.
- T. I. & M. Sales Ltd., Regd. Office : 6, Church Lane, Calcutta 1.
- Talbot & Co., Tower House, Chowringhee Sqr., Calcutta 1.
- Talukdar Law & Co., Private Ltd., Hindusthan Buildings, 4, Chittaranjan Avenue, Calcutta 13.
- Talukdar S. & Co. Ltd., 5, Commercial Bldgs., Netaji Subhas Road, Calcutta 1.
- Tantia Bros. Pvt. Ltd., Old Court House Corner, Calcutta 1.
- Targett & Co. Ltd., W.H., 5, Mission Row, Calcutta 1.
- Tata Chemicals Ltd., Mercantile Bldgs., 10, Lal Bazar, Calcutta.
- Tata Engineering & Locomotive Co. Ltd., 30, C. R. Avenue, Calcutta 12.
- Tata Fison Industries Ltd., 10, Harrington Street, Calcutta 16.
- Tata Iron & Steel Co. Ltd., 43, Chowringhee Road, Calcutta 16.
- Tata Oil Mills Co. Ltd., 26, R. N. Mukherjee Road, Calcutta 1.
- Tatanagar Foundry Co. Ltd., 51, Stephen House, 4, Dalhousie Square, Calcutta 1.
- Tatanagar Transport Corporation, 147, Mahatma Gandhi Road, Calcutta 7.
- Tecalemit (Hind) Ltd., 8/12, Chittaranjan Avenue, Calcutta 13.
- Technical (India) Pvt. Ltd., 62-1, Joy Narain Babu & Ananda Dutta Lane, Howrah.
- Technico Enterprises Pvt. Ltd., P-22, Swallow Lane, Calcutta 1.
- Teloijan Tea Co. Ltd., 3, Netaji Subhas Road, Calcutta 1.
- Textile Machinery Corpn. Ltd., Belgharia, Calcutta 56.
- Thacker Spink & Co. (1933) Pvt. Ltd., 3, Esplanade East, Calcutta 1.
- Thacker's Press & Directories Ltd., 6, Bentinck Street, Calcutta 1.
- Thomas J. & Co., Pvt. Ltd., 11, R. N. Mukherjee Road, Calcutta 1.
- Thompson Co. Private Ltd., J. Walter, 30, Boudel Road, Calcutta 19.
- Thomson T. E. & Co. Ltd., 9-A, Esplanade East, Calcutta 1.
- Tideman & Co. (India) Pvt. Ltd., 64/65, Stephen House, 4, Dalhousie Square, East, Calcutta 1.
- Tide Water Oil Co. (India) Ltd., 8, Clive Row, Calcutta 1.
- Times of India, 13/1, 13/2, Govt. Place East, Calcutta 1.
- Tirrihannah Co. Ltd., 3, Netaji Subhas Road, Calcutta 1.
- Toolsidas Jewraj, 15, Clive Row, Calcutta 1.
- Torrance & Sons Ltd., 30, Chowringhee Road, Calcutta 16.
- Torrington Needle Agency, 21-A, Gaur Laha Street, Calcutta 6.
- Toshniwal Bros. (P) Ltd., 85A, Sarat Bose Road, Calcutta 26.
- Tractors (India) Ltd., 1, Taratolla Road, Garden Reach, Calcutta 24.
- Trade Link (India) Ltd., 20, Netaji Subhas Road, Calcutta 1.
- Traders Cartel Pvt. Ltd., 285-H, Bowbazar Street, Calcutta 12.
- Traders' International Mercantile Agency Pvt. Ltd., 15, Shakespeare Sarani, Cal. 16.
- Tribeni Tissues Pvt. Ltd., 24B, Park Street, Calcutta 16.
- Turner Hoare & Co. Pvt. Ltd., P29, Mission Row Extension, Calcutta 13.
- Turner Morrison & Co. Ltd., 6, Lyons Range, Calcutta 1.
- Twentieth Century-Fox Corpn. (India) Ltd., 19, Chowringhee Road, Calcutta 13.
- Tyroon Tea Co. Ltd., 3, Netaji Subhas Road, Calcutta 1.
- Uberol Ltd., 22-1, Chowringhee Road, Calcutta 13.
- Umakant & Co. Pvt. Ltd., P674 B1 'O', New Alipore, Calcutta 33.
- Union Carbide India Ltd., Jeevandeep, 1, Middleton Street, Calcutta 16.
- Union Commercial Corporation, Mercantile Bldgs., 11A, Lal Bazar Street, Calcutta 1.
- United Collieries Ltd., 25, Brabourne Road, Calcutta 1.
- United Commercial and Industrial Co. Pvt. Ltd., 96/6/1, Dharamtolla Road, Salkia, Calcutta.
- United Commercial Trading Corpn. Ltd., 138, BRBB Road, Calcutta 1.
- United Liner Agencies of India Pvt. Ltd., 17, Brabourne Road, Calcutta 1.
- United Provinces Commercial Corporation, 4, Princep Street, Calcutta 13.
- United Steel Companies (India) Pvt. Ltd., 23, Ganesh Chandra Avenue, Calcutta 13.
- United Supply Agency Pvt. Ltd., 38, Strand Road, Calcutta 1.
- United Trading Co., 199/5, Mahatma Gandhi Road, Calcutta 7.
- Universal Cables Ltd., 15, India Exchange Place, Calcutta 1.
- Universal Importers Co., 77, Ballygunge Place, Calcutta 19.
- Universal Industries & Cotton Mills Ltd., India Exchange, Calcutta 1.
- Universal Refrigeration Corpn. P. Ltd., 47, Southern Avenue, Calcutta 29.
- Universal Trading Co., 71/1, BRBB Road, Calcutta 1.
- Usha Automobile & Engineering Private Ltd., 14, Princep Street, Calcutta 13.
- Usha Development Co. Ltd., 15, India Exchange Place, Calcutta 1.
- Usha Martin Block (Wire Ropes) Ltd., 14, Princep Street, Calcutta 13.
- Uttar Pradesh Trading Co. Ltd., 15, India Exchange Place, Calcutta 1.
- Vasanji Topun Madhowjee & Co., 5-1, Portuguese Church Street, Calcutta 1.
- Vasant Corporation Pvt. Ltd., 8, Amaratolla Street, Calcutta 1.
- V. D. Swami & Co. Pvt. Ltd., 8, Ritchie Road, Calcutta 19.
- Veegal Engines & Engg. Ltd., 31, Chittaranjan Avenue, Calcutta 12.
- Vinar Ltd., 2-A, Shakespeare Sarani, Calcutta 16.
- Virechand Panachand & Co. (Calcutta) Pvt. Ltd., 37, BRBB Road, Calcutta 1.
- Vishnu Agencies Pvt. Ltd., Bharat Bhawan, 3, Chittaranjan Avenue, Calcutta 13.
- Vishwa Bharati Trading Co., R24, 2 Mullick Street, Calcutta 7.
- Vishwakarma (Private) Ltd., Banaras Road, Belgachia, P. O. Dasnagar, Howrah.
- Volta Limited, 8, Netaji Subhas Road, Calcutta 1.
- Wahle D. & Co. Ltd., A1, Clive Buildings, Calcutta 1.
- Walford Transport Ltd., 71, Park Street, Calcutta 16.
- Walker W. J. & Co., 6, Commercial Bldgs., Calcutta 1.
- Walter Bushnell P. Ltd., Grosvenor House, 18/2, Chowringhee Road, Calcutta 13.
- Walters M. & Co., 17, Chowringhee, Calcutta 13.
- Water Supply Specialists Pvt. Ltd., Gujrat Mansions, Mission Row Extn., Calcutta 1.
- Waxpol Industries Ltd., 9, Mitra House, 71, Ganesh Chandra Avenue, Calcutta 13.
- Weddel India Ltd., 103, Park Street, Calcutta 16.
- Weights & Measures Syndicate, 76/2, Ichapur Road, Howrah.
- Wellman Incandescent India Ltd., 8, Harrington Street, Calcutta 16.
- Westman Engineering Co. Pvt. Ltd., 1/2, Allenby Road, Calcutta 20.
- West Bengal Safe Deposit Vault Ltd., 5, Clive Row, Calcutta 1.
- West Bokaro Pvt. Ltd., 23-B, Netaji Subhas Road, Calcutta 1.
- West End Trading Co. Ltd., 91, Netaji Subhas Road, Calcutta 1.
- Western Bengal Coalfields Ltd., 15, India Exchange, Place, Calcutta 1.
- Western India Match Co. Ltd., Wellesley House, 7, Wellesley Place, Calcutta 1.
- Western India Theatres Ltd., 136, S. N. Banerjee Road, Calcutta 13.
- Western Mechanical Industries P. Ltd., 10, Middleton Row, Calcutta 16.
- Western Oxy-Acetylene & Electric Welding Co., P. Ltd., 2/7, Sarat Bose Road, Calcutta 20.
- Westrex Co., Lighthouse Cinema Bldg., 2, Humayun Place, Calcutta 13.
- Wharton H. W. & Co. Ltd., 17, Brabourne Road, Calcutta 1.
- Wheeler A. H. & Co., Pvt. Ltd., 18, Netaji Subhas Road, Calcutta 1.
- Wiggins Teape & Alex Pirie 18-B, Brabourne Road, Calcutta 1.
- William Jacks & Co. Ltd., 16, Netaji Subhas Road, Calcutta 1.
- Williamson Magor & Co. Ltd., 4, Mangoe Lane, Calcutta 1.
- WILLIAMSON'S (INDIA) PRIVATE LTD.**, Textile Mill Stores & Machinery Suppliers; 8, Netaji Subhas Road, Calcutta 1; Regd. Office : 10, Veer Nariman Road, Bombay 1; Branches : Ahmedabad & Calcutta.
- Wilton & Roy, 135, Princep Street, Calcutta 13.
- Wing Hing & Co. Pvt. Ltd., 18, Chandney Chowk Street, Calcutta 13.
- Wire Machinery Manufacturing Corpn., 1/A, Vansittart Row, Calcutta 1.
- W. Newman & Co. Ltd., 3, Old Court House Street, Calcutta 1.
- Wood Craft Products Ltd., P46A, CIT Scheme XLV, Radha Bazar Lane, Calcutta 1.
- Woodcrafts (Assam) Ltd., India Exchange, Calcutta 1.
- Woolcombers of India Ltd., 31, Netaji Subhas Road, Calcutta 1.
- Worah K. & Co. Ltd., 135, BRBB Road, Calcutta 1.
- Wren D. & Co., Warley House, 25, Swallow Lane, Calcutta 1.
- W. S. Atkins & Partners (I) Ltd., 27, Free School Street, Calcutta 16.
- Zenith Distributors & Agents Ltd., 15, India Exchange Place, Calcutta 1.

CLASSIFIED LIST OF TRADES AND PROFESSIONS

ABRASIVES MANUFACTURERS AND DEALERS

Carborundum Universal Ltd.—50, Syed Amir Ali Avenue, P.B. No. 16001, Calcutta 17.
Grindwell Abrasives P. Ltd.—23, Ganesh Ch. Avenue, Calcutta 13.
International Trading Co. (Engineers).—22, N. Subhas Road, Calcutta 1.

ACCOUNTING, ADDING, ADDRESSING & STATISTICAL MACHINES, CALCULATORS, DUPLICATORS, ETC.

Adding Machines (India) Pvt. Ltd.—29, Ezra Mansions, 10, Govt. Place East, Calcutta 1.
Gestetner Duplicators Ltd., 9-A, Esplanade East, Calcutta 1.
IBM World Trade Corp.—Mackinnon Mackenzie Building, 16/18, Strand Road, Calcutta 1.
International Computers & Tabulators (I) P. Ltd., 17, C.R. Avenue, Calcutta 13.
Typewriter & Stationery Corp., Ltd.—12, N. Subhas Road, Calcutta 1.

ADVERTISING & PUBLICITY AGENTS & CONSULTANTS

Advertising & Sales Promotion Co.—P-35, India Exchange Extension, Calcutta 1.
Ajanta Advertising.—24-B, Park Street, Calcutta-16.
Associated Advertisers & Printers Ltd.—1/1, Meredith Street, Calcutta 13.
Blaze Advertising P. Ltd.,—16, Theatre Road, Calcutta 16.
Calcutta Advertising Agency, 3, Kedarnath Bhattacharjee Lane, Calcutta 36.
Everest Advertising P. Ltd.—27, Motilal Nehru Road, Calcutta 29.
GRANT ADVERTISING INTERNATIONAL, INC.—16, Shakespeare Sarani, Calcutta-16. Phone : 445824-5-6 ; Grams : "GRANTCHI." Advertising Agents & Consultants ; S. Chatterji, Chief Divisional Manager, Dinesh Dutt, Manager. Offices at Bombay, Madras, Delhi. (31 Branches all over the World.)
India-International News Service.—12, India Exchange Place, Calcutta 1.
LPE-Alfars Private Ltd.—6, Little Russell Street, Calcutta 16.
National Advertising Agency, P-360, Keyatolla St., Calcutta 29.
NATIONAL ADVERTISING SERVICE PRIVATE LTD.—21, Princep Street, Calcutta-13; Grams : "JEYENJEYN" (C) Calcutta. Phone : 23-2686 and 232456 ; Regd. Head Office : Khorsheed Building, Sir P. M. Road, Bombay-1 (BR).
Press Syndicate Ltd.—91A, Park Street, Calcutta 16.
Press Trust of India Ltd., Race Course Maidan, Calcutta 22.

AERATED WATER

Calcutta Cold Storage Ltd.—D/1, Hide Road, Kidderpore, Calcutta 43.
Hind Ice & Cold Storage Ltd.—23A, Canal West Road, Calcutta 4.
India Ice, Aerated Water & Cold Storage Co., Ltd.—138, Beliaghata Road, Calcutta 15.
Pure Drinks (Calcutta) P. Ltd.—209, Karnani Estate, Lower Circular Road, Calcutta 17.

AGRICULTURAL MACHINERY AND IMPLEMENTS MANUFACTURERS & DEALERS

Agricultural Machinery Mfg. Corporation Ltd., 12B, Lower Chitpur Road, Calcutta 1.
Bharat Industries & Commercial Corp., Tower House, Chowringhee Square, Calcutta 1.
Components and Machinery Corporation.—9/12, Lall Bazar Street, Calcutta 1.
East India Engg. & Agency Co. (Workshop)—63-1, Benaras Road, Howrah, Calcutta 1.
Guchait, S. P. & Sons P. Ltd.—15, Madhusudan Paul Chowdhury Lane, Howrah, Calcutta 1.
Howrah Foundry Works Pvt. Ltd.—14/1/1A, Jackson Lane, Calcutta 1.
Industrial & Agricultural Engg. Co. (Calcutta) Ltd., 19, R.N. Mukherjee Road, Calcutta 1.
Larsen & Toubro Ltd.—Kanak Buildings, Chowringhee Road, Calcutta 16.
Marshall Sons & Co. (Manufacturing) Ltd.—33/1, Netaji Subhas Road, Calcutta 1.
Metal Craft (India) Ltd.—96, Garden Reach Road, Calcutta 23.
Tractors (India) Ltd.—1, Taratolla Road, Garden Reach, Calcutta 24.
Veitas Limited.—8, Netaji Subhas Road, Calcutta.
Walam Jacks & Co. Ltd.—16 Netaji Subhas Road, Calcutta 1.

AIR CONDITIONING & REFRIGERATION

Air Conditioning Corp. Pvt. Ltd.—E-2, Gillander House, Netaji Subhas Road, Calcutta 1.
Blue Star—7, Hare Street, Calcutta 1.
Calcutta Refrigerators Corp.—4, Harington Street, Calcutta 16.
Cumberland & Martin Pvt. Ltd.—51, Ripon Street, Calcutta 16.
Eastern Electric & Trading Co.—31, Chowringhee Road, Calcutta 16.
Hindustan Refrigerations Ltd.—9, Ezra Street, Calcutta 1.
International Refrigeration Engineering Co.—5/2, Ripon Street, Calcutta 16.
Keymer Bagshawe & Co. India P. Ltd.—22, Strand Road, Calcutta 1.
Middleton Engineering Co.—12-F, West Galstaun Mansion, Calcutta 16.
National Refrigerators Ltd.—87, L.C. Road, Calcutta 14.
New India Mercantile Co. Pvt. Ltd.—15, India Exchange Place, Calcutta 1.
Oriental Refrigeration Corporation.—17-A, Indian Mirror Street, Calcutta 13.
Refrige Private Ltd.—16, Shakespeare Sarani, Calcutta 16.
Refrigerators (I) Pvt. Ltd.—59C, Park Street, Calcutta 16.
Sur Industries Pvt. Ltd.—163, Acharya J.B. Road, Calcutta 14.
Volta Ltd.—8, Netaji Subhas Road, Calcutta.

ALUMINIUM & ALUMINIUM PRODUCTS MANUFACTURERS & DEALERS

Aluminium Corporation of India Ltd.—7, Council House Street, Calcutta 1.
Aluminium Hindustan P. Ltd.—2, Jessore Road, Calcutta 28.
Aluminium Industries Ltd., 23, Kabir Road, Calcutta 26.
Aluminium Manufacturing Co. Pvt. Ltd., 2, Jessore Road, Dum Dum, Calcutta 28.
Hindustan Aluminium Corporation Ltd.—27B, Carnac Street, Calcutta 17.
Indian Aluminium Co. Ltd.—1, Middleton Street, Calcutta 16.
Luxmi Metal Works.—40/A, Armenian St., Calcutta.
Pressed Steel Co. Private Ltd.—68, Old Mayor's Court, Calcutta 5.

ANALYSTS

ITALAB PRIVATE LTD.—10, Lall Bazar, Calcutta. Assayers, Samplers and Surveyors, Head Office : 15 Cawasji Patel Street, Bombay-1 ; Phones : 253882, 253667 ; Grams : "ITALABO". Branch Laboratories : Madras, 19, Govindappa Naicken Street ; Visakhapatnam : 20/119, Beach Road, Bellary : XIX/37, Ganesh Temple Street, Cowl Bazar.

AROMATIC CHEMICAL MFRS. & DEALERS

Aceto Chemicals Private Ltd.—22, Brabourne Road, Calcutta-1.
Calcutta Essence Supply Co.—41, Ezra Street, Calcutta 1.
Dass & Sons.—18, Ezra Street, Calcutta 1.
Hind Perfumers Ltd.—54, Ezra Street, Calcutta 1.
Khater Chemical Co.—5, Lucas Lane, Calcutta 1.
Moolraj & Co.—33, Brabourne Road, Calcutta 1.
National Perfumery House.—44/45, Ezra Street, Calcutta 1.
Oswal Co. P. Ltd.—14/2, Old China Bazar Street, Calcutta 1.
Paradise Perfumery House.—6/2, Colootola Street, Calcutta 1.
Plummer Bros. & Co.—11, Dover Park, Calcutta 19.
Sikri & Co Pvt. Ltd.—55 BRBB Road, Calcutta 1.
Shroff Perfumery Co.—47, Ezra Street, Calcutta 1.
Synoflor Co.—21, Parsi Church Street, Calcutta 1.

ASBESTOS

Asbestor Cement Ltd.—Taratolla Road, G. R. Calcutta 24.
Asbestos Products Co., 71-A, N. Subhas Road, Calcutta 1.
ASBESTOS MAGNESIA & FRICTION MATERIALS LTD.—(Incorporated with limited liability in England.) A member of the "Turner & Newall" Group. Calcutta Sales Office : 20/A, Camac Street, Calcutta-16. Phone : 449185. Grams : "ASMAFRIC." Head Office : Bombay-Agra Road, Chatkoper, Bombay 72 ; Phone : 581491 (9 lines). Gram : "ASM-AFRIC." Sales Offices at Madras & New Delhi.
HINDUSTAN FERODO LTD.—A member of the "Turner & Newall" group. Calcutta Sales Office : 20/A, Camac Street, Calcutta. Phone : 449185 ; Grams : "FERODOSTAN." Head Office & Factory : Bombay-Agra Road, Ghatkoper, Bombay 77 (AS) ; Phone : 581491 (9 Lines). Grams : "FERODOSTAN." Sales Offices : Madras & New Delhi ; Manufacturers of "Firefly" Asbestos Textiles, Compressed Asbestos Fibre jointings, Asbestos Millboard, "Limpet" Asbestos Sheets and Perobestos.

Indian Asbestos Insulation Co., 28, Strand Road, Calcutta 1.
J. D. Jones & Co. Ltd.—C/5, Gillander House, 8, Netaji Subhas Road, Calcutta-1.
National Syndicate, 7, Hare Street, Calcutta 1.

AUTOMOBILES & AUTOMOBILE PARTS & ACCESSORIES DEALERS

Advance Auto Agency.—7, Sooterkin Street, Calcutta 13.
Aicorp P. Ltd.—10, Lalbazar Street, Calcutta 1.
Anand Motors.—24, Mangoe Lane, Calcutta 1.
Anglo American Autos P. Ltd.—23, Ganesh Ch. Avenue, Calcutta 13.
ASBESTOS, MAGNESIA & FRICTION MATERIALS LTD.—(Incorporated with limited liability in England.) A member of the "Turner & Newall" Group. Calcutta Sales Office: 20/A, Camac Street, Calcutta-16; Phone: 449185; Grams: "ASMAFRIC." Head Office: Bombay-Agra Road, Ghatkopar, Bombay 77; Phone: 581491 (9 Lines); Grams: "ASMAFRIC." Sales Offices at Madras and New Delhi.
Associated Cycle & Motor Agencies.—10, British Indian St., Calcutta 1.
Associated Indian Enterprises Pvt. Ltd.—225C, Acharya J. B. Road, Calcutta 17.
Auto Sales Corporation.—10, Princep Street, Calcutta 13.
Automotive Rubber Co.—5, Sooterkin Street, Calcutta 13.
Autocar Industries (India).—1, Gariahat Road, Calcutta 19.
Automotive Agencies P. Ltd.—14, Bentinck Street, Calcutta 1.
Bengal Auto Distributors.—25-B, Park Street, Calcutta 16.
Bengal Automobiles.—57, Park Street, Calcutta 16.
Bharat Industries & Commercial Corporation.—Tower House, Chowringhee Square, Calcutta-1.
Bharat Motors, P-29, Mission Row Extension, Calcutta 13.
Calcutta Motor Parts and Accessories Co. P. Ltd., 19, Jatindra Mohan Lane, Calcutta 6.
Central Motor Parts & Accessories Co. Pvt. Ltd.—20, Mangoe Lane, Calcutta 1.
Cycle and Automobile Components Ltd.—4, Mission Row, Calcutta 1.
Dominion Distributors Private Ltd.—11, British Indian Street, Calcutta 1.
Eastern Auto Parts Co. (Calcutta) Ltd.—P21, Mission Row Extn., Calcutta 1.
Eastern Motors P. Ltd.—75, Ganesh Ch. Avenue, Calcutta 13.
French Motor Car Co. Ltd.—234/3, Lower Circular Road, Calcutta 20.

HINDUSTAN FERODO LTD.—A member of the "Turner & Newall" Group. Calcutta Sales Office: 20/A, Camac Street, Calcutta; Phone: 339185; Grams: "FERODOSTAN"; Head Office and Factory: Bombay-Agra Road, Ghatkopar, Bombay 77 (AS); Phone: 581491 (9 Lines). Grams: "FERODOSTAN"; Sales Offices: Madras & New Delhi; Manufacturers of "FERODO" Brake and Clutch Linings.

Hindustan Motors Ltd.—15, India Exchange Place, Calcutta 1.
Howrah Motor Co. P. Ltd.—16, R. N. Mukherjee Road, Calcutta 1.
Indo British Motor Industries.—157, Dharamtolla Street, Calcutta 13.
International Tyres and Motors P. Ltd.—2, Rowland Road, Calcutta 20.
Jaidka Motor Co. Ltd.—129, Park Street, Calcutta 16.
Jay Jay Automobiles Co. Pvt. Ltd.—P39, Mission Row Extn., Calcutta 1.
Kaybee & Co.—60/1, Chowringhee Road, Calcutta 20.
K. G. Industries & Motor Parts Co.—6/1-A, British Indian Street, Calcutta 1.
London Automobiles.—17, Princep Street, Calcutta 13.
Lucas Indian Service P. Ltd.—46, R. A. Kidwai Road, Calcutta 16.
Mohan Automobiles.—24, Mangoe Lane, Calcutta 1.
Motor Fuel Stores P. Ltd.—Mercantile Buildings, Calcutta 1.
Northern Automobiles.—182/A, U. C. Road, Calcutta 4.
Oriental Motor Accessories Agency P. Ltd.—12, Waterloo Street, Calcutta 1.
P. K. Industries.—3/1, Mangoe Lane, Calcutta 1.
Pioneer Automobile Co.—P. 39, Princep Street, Calcutta 13.
Pioneer Motors of India P. Ltd.—5-A, Clive Ghat Street, Calcutta 1.
Republican Automobiles.—14, Bentinck Street, Calcutta 1.
Russell Auto Supply Co.—Queen's Mansions, Park St., Calcutta 16.
Shah (I) P. Ltd.—P-50, Princep Street, Calcutta 13.
Sovereign Automobiles.—61, Bentinck Street, Calcutta 1.
Tracto Technic Corporation.—P-33, Mission Row Extension, Calcutta 13.
United Automobiles P. Ltd.—51, Ganesh Chandra Avenue, Calcutta 13.

BALL & ROLLER BEARINGS

Ashoka Industrial Corporation.—138, BRBB Road, Calcutta 1.
Associated Bearing Co.—20, Netaji Subhas Road, Calcutta 1.
Ball Bearing and Engineering Co.—52, Netaji Subhas Road, Calcutta 1.
Bearing Service, Co.—138, Canning Street, Calcutta 1.
General Ball Bearing Co.—133, BRBB Road, Calcutta 1.
Hindustan Ball Bearing Corporation.—137, BRBB Road, Calcutta 1.
National Engineering Industries Ltd.—India Exchange Buildings, Calcutta 1.
Overseas Industrial Accessories.—38, Netaji Subhas Road, Calcutta 1.

SHIRIRAM BEARINGS LIMITED.—49/1, Gariahat Road, Calcutta-19. Phones: 47-7858/9 & 47-7850. Manufacturers of BBL Brand Ball Bearings. Technical Collaborators—THE FAFNIR BEARING CO. OF U.S.A. Also Sole Selling Agents in India of FAFNIR/USA and FBC-FAFNIR/U.K. for Ball Bearings, ANDREWS/USA for Thrust Bearings, INA/W. Germany for Needle Roller Bearings and NSK/Japan for Roller Bearings. Divl. Sales Office: D-14, Commerce Centre, Tardeo Road, Bombay-34 (W.B.). Phone: 371639.

SKF Ball Bearing Co. Pvt. Ltd.—11, Rajendra Nath Mukherji Road, Calcutta 1.

William Jacks & Co. Ltd.—16, Netaji Subhas Road, Calcutta 1.
Wren, D. & Co.—Wardley House, 25, Swallow Lane, Calcutta.

BATTERY MANUFACTURERS & DEALERS

Acme Battery Mfg. Co.—8/1, Esplanade East, Calcutta 1.
Associated India Enterprises P. Ltd.—225C, Acharya J. B. Road, Calcutta 17.
Chloride & Exide Batteries (Eastern) Pvt. Ltd.—Barlow House, 59, Chowringhee Road, Calcutta 20.
Estrela Batteries Ltd.—22 BRBB Road, Calcutta 1.
Indian Battery Mfg. Co. Ltd.—1-A, "Mitar", Lower Circular Road, Calcutta 20.
Lucas Indian Service Pvt. Ltd.—46, R. A. Kidwai Road, Calcutta 16.
National Battery Co.—32, Gorachand Bose Road, Calcutta 6.
National Carbon Co. (India) Ltd.—18-A, Brabourne Road, Calcutta.
Oriental Battery Mfg. Co.—10, G.T. Roads, Howrah, Calcutta 1.
Sun Battery Co. Pvt. Ltd.—166, Upper Circular Road, Calcutta 4.
V. N. Rajan & Co.—2/5/1, Hindustan Road, Calcutta 29.

BELTING (LEATHER, HAIR & COTTON) & MECHANICAL LEATHERS AND BELT DRESSING MANUFACTURERS & DEALERS

Asai Belting & Spinning Mills Ltd.—91, Netaji Subhas Road, Calcutta 1.
Bengal Belting Works Ltd.—2, Dalhousie Square East, Calcutta 1.
Bharat Hardware & Textile Syndicate.—14, N.S. Road, Calcutta 1.
D. Wren & Co.—Wardley House, 25, Swallow Lane, Calcutta 1.
Eastern Belting & Cotton Mills P. Ltd.—20, N.S. Road, Calcutta 1.
E. B. Leather Mfg. Co.—76-A, Upper Circular Road, Calcutta.
Fenner, J. H., & Co. (India) Ltd.—56D, Free School Street, Calcutta 16.
F. Husain & Brothers.—28, Strand Road, Calcutta.
Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta 1.
India Belting & Cotton Mills Ltd.—7/G, Clive Row, Calcutta.
Indian Stores Supplying Co.—137, BRBB Road, Calcutta 1.
Mundra & Co.—8, Canning Street, Calcutta.
Rostron & Co. Pvt. Ltd.—12-A, Ezra Mansion, 10, Govt. Place, East, Calcutta 1.
Vulcan Electric & Engineering Co.—12-B, Lower Chitpur Road, Calcutta 1.

BISCUIT & CONFECTIONERY MANUFACTURERS

C. E. Morton (I.) Ltd.—2, Justice Chandra Madhab Road, Calcutta 20.
East India Bakery.—106, Sarat Bose, Road, Calcutta 29.
Empire Confectionery Co.—157-A, Dharamtolla Street, Calcutta 13.

BLOWERS

James Lord & Sons Ltd.—19, Strand Road, Calcutta 1.
Lord's Bakery, Confectionery & Biscuit Co.—2, Prince G. M. Shah Road, Tollygunge, Calcutta 45.
Standard Trading Co., The.—14, Chittaranjan Avenue, Calcutta 13.

BOARDS MILLS

Asiatic Board Mills Ltd.—29/B, Beerpara Lane, Calcutta 30.
Bharat Board Mills Ltd.—P15, Indian Exchange Place Extension, Calcutta 1.
Eastern Paper Mills Ltd.—2, Dakshindari Road, Calcutta 48.
Pioneer Paper & Pulp Ltd.—24, Netaji Subhas Road, Calcutta 1.
Swastik Board and Paper Mills Pvt. Ltd.—4, Stephen House, Dalhousie Sq., Calcutta 1.
Union Paper & Board Mills Ltd.—18, Netaji Subhas Road, Calcutta 1.

BOBBIN AND SPOOL MANUFACTURERS

Bengal Bobbin & Plywood Co. Ltd.—School Road, Calcutta 32.
Bharat Industries Corpn. Pvt. Ltd.—13, Naba Kumar Kar Lane, Salkia, Calcutta 6.
Greenway & Co.—3, Mangoe Lane, Calcutta 1.
India Bobbin Industries.—135, Canning St., Calcutta 1.
National Industrial Works.—9, Cline Row, Calcutta 1.

BOBBINS (JUTE MILL) MANUFACTURERS

Hindustan Bobbin Industries.—35, Canal East Road, Calcutta 11.
Shalimar Industries P. Ltd.—25, Ganesh Ch. Avenue, Calcutta 13.

BOLT, NUT & RIVET MANUFACTURERS & DEALERS

Alliance Engineering Works.—71, Dharamtolla Street, Calcutta 13.
Aminchand Pyarelal Ltd.—15, Brabourne Road, Calcutta 1.
Associated Steel Products Corporation Private Ltd.—14, Chowringhee Road, Calcutta 16.
Bolts Nuts & Forging Co.—47, Gaushtala Road, Lilloah, (Dt. Howrah).
C. G. Engineering Works.—233, Belilios Road, Howrah, Calcutta 1.
Kasco Metal Products.—35, Bon Behari Rose Road, Calcutta 1.
King Engineering Co.—157, Belilios Road, Howrah.
Lyall, M. T. & Co.—36, Strand Road, Calcutta 1.
Mullick, S. N. & Co.—37, Netaji Subhas Road, Calcutta 1.
National Machine Tools Co.—10/10, Brindaban Mullick Lane, Kadamtala, Howrah.
Shalimar Iron Works.—62, College Ghat Road, Calcutta 3.
Steel & Allied Products Ltd.—6 Little Russell Street, Calcutta 16.
Union Engineering Works.—4/1, Madan Street, Calcutta 13.

BOOKSELLERS, PRINTERS AND PUBLISHERS

Asia Publishing House, 67, Ganesh Chandra Avenue, Calcutta 13.
Baikuntha Book House—183, Cornwallis Street, Calcutta 6.
Bengal Publishers—15, Bankim Chatterjee Street, Calcutta 12.
Books of the World.—95, Keshab Chandra Sen Street, Calcutta 9.
Cambridge Book & Stationery Co.—20-D, Park Street, Calcutta 16.
Hahnemann Publishing Co. P. Ltd.—165, B.R.G. Street, Calcutta 12.
Indian Associated Publishing Co. Ltd.—93, M.G. Road, Calcutta 7.
Kothari Publications.—12, India Exchange Place, Calcutta 1.
National Book Agency Pvt. Ltd.—12, Bankim Chatterji Street, Calcutta 12.
Orient Longmans P. Ltd.—17, Chittaranjan Avenue, Calcutta 13.
Oxford University Press.—P17, Mission Row Extn., Calcutta 1.
Scientific Publishing Co.—85, Netaji Subhas Road, Calcutta 1.
Standard Literature Co. P. Ltd.—13/1, Old Court House Street, Calcutta 1.
Thacker Spink & Co. (1933) Ltd.—3, Esplanade East, Calcutta 1.

BUCKET MANUFACTURERS

Asian Industries.—9, Upper Chitpur Road, Calcutta 7.
Bengal Iron Trading Co.—227, Chotayal Misra Lane, Howrah.
Bharat Steel & Metal Industries.—14/2, Old China Bazar Street, Calcutta 1.
East India Metal Co. Pvt. Ltd.—41/1B, Ram Kant Bose Street, Calcutta 3.
Goodman & Co. (I.) Pvt. Ltd.—38, Netaji Subhas Road, Calcutta 1.
Hindustan Industrial Co.—192, Jamunahal Bazar Street, Calcutta 7.
Metal & Alloy Corporation.—38-A, Belgachia Road, Calcutta 37.
Shree Hanuman Iron Works.—42/1, Mahatma Gandhi Road, Calcutta 1.

BUILDERS & CONTRACTORS

Associated Construction and Planning Corporation.—138, BRBB Road, Calcutta 1.
Bridge and Building Construction Co. P. Ltd.—90/A, Shyamaprasad Mukherjee Road, Calcutta 26.
Dalmiya & Co., M. L.—76, Ashutosh Mukherjee Road, Bhowanipore, Calcutta 25.
Electric Construction & Equipment Co. P. Ltd.—27B, Carnac Street, Calcutta 16.
Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta 1.
Home Builders India P. Ltd.—12-P, Park Street, Calcutta 16.

CABLE & WIRE MANUFACTURERS & DEALERS

Aluminium Cable & Conductors (U.P.) P. Ltd.—2A, Shakespeare Sarani, Calcutta 16.
Electrical Manufacturing Co. Ltd.—136, Jessore Road, Calcutta-28.
National Insulated Cable Co. of India Ltd.—The Nicco House, 2, Hare Street, Calcutta 1.

CANVAS & 'PAULIN' MANUFACTURERS & DEALERS

Bengal Canvas Goods Mfg. Co.—2B, St. George Terrace, Calcutta 22.
Calcutta Proofing & 'Paulins' Mfg. Co. Ltd.—16 Alipore Road, Calcutta 27.
Harley & Co., F.—5, Delhi Serampore Road, Entally, Calcutta 14.
Kilburn & Co. P. Ltd.—2, Fairlie Place, Calcutta 1.
Premier Canvas Co.—28, N. Subhas Road, Calcutta 1.

CARDBOARD BOX & CARTON MANUFACTURERS

Bengal Box Mfg. Co.—14, Raj Kumar Chatterjee Road, Cossipur, Calcutta 2.
Bharat Cardboard Industries & Printing Co.—277/5, Manicktala Main Road, Calcutta 11.
Diamond Products Ltd.—Rajabagal Alam Bazar, Calcutta 35.
Modern India Machine Tools Pvt. Ltd.—18-1-6, Canal West Rd., Calcutta 9.
Packaging & Printing Industries-1, British Indian St., Calcutta 1.
Standard Cardboard Industries—18, Belgachia Road, Calcutta 4.

CHEMICALS (IMPORTERS, STOCKISTS & MFRS.)

Basic Synthetics and Chemicals P. Ltd.—25, East Road, Calcutta 32.
BENGAL CHEMICAL & PHARMACEUTICAL WORKS LTD.—6, Ganesh Chandra Avenue, Calcutta 13; Pharmaceuticals, Heavy and Fine Chemicals, High Class Toilet Products, Coal Tar Distillation Products, Fire Extinguishers, Printing Inks, Driers, etc., Branch Office—Bombay and Kanpur.
Chemical Plant and Equipment Ltd.—66 Dharamtolla Street, Calcutta.
Neo Chemical and Engineering Industries.—38, Pratapadiya Place, Calcutta 26.
Shroff Chemicals P. Ltd.—3, Rafi Ahmed Kidwai Road, Calcutta 13.

CHEMICALS, DRUGS AND PHARMACEUTICAL PRODUCTS MANUFACTURERS

Adeco Ltd.—Adeco nagar, Dist. Hooghly : City Office : 2, Jawaharlal Nehru Road, Calcutta 13 : Phone : 238982.
Allied Resins & Chemicals P. Ltd.—47, Hide Road Estn. Calcutta 27.
Asi. Drugs Co. Ltd.—29, Strand Road, Calcutta 1.
Bathgate & Co. Ltd.—2, Dalhousie Square East, Calcutta 1.
Bengal Acid & Chemical Manufacturing Co.—27-A, Acharya Prafulla Chandra Road, Calcutta 9.
BENGAL CHEMICAL & PHARMACEUTICAL WORKS LTD.—6, Ganesh Chandra Avenue, Calcutta 13. Pharmaceuticals, Heavy and Fine Chemicals, High Class Toilet Products, Surgical and Hospital Equipment, Laboratory Equipment, Coal Tar Distillation Products, Fire Extinguishers, Printing Inks, Driers, etc., Branch Offices: Bombay & Kanpur.
Bengal Drugs & Pharmaceutical Works.—Lakshminilal House, 11, Raj Narayan Street, Calcutta 9.
Bharat Laboratory & Chemical Works Ltd.—18, Zakaria Street, Calcutta 1.
British Drug Houses (I) Ltd.—58/D, Chowringhee Road, Calcutta 16.
Calcutta Industrial Chemicals & Minerals Co. Ltd.—43, Dharamtolla Street, Calcutta 13.
Calcutta Soap Works Ltd.—70, N.S. Road, Calcutta 1.
Charak Chemical Works Ltd.—161-1/1, M.G. Road, Calcutta 7.
Chemical & Surgical Works Ltd.—186, BBG Street, Calcutta 12.
Ciba Industries Ltd.—59-D, Chowringhee, Calcutta 20.
East India Pharmaceutical Works Ltd.—6, Little Russell Street, Calcutta 16.
Frank Ross & Co. Ltd.—15/7, Chowringhee, Calcutta 13.
Glaxo Laboratories (I) Ltd.—50, Hide Road, Calcutta 27.
Grimault Ltd. Laboratories.—40/B, Princep Street, Calcutta 13.
Hindusthan Scientific Chemical Industries Pvt. Ltd.—6, Mangoe Lane, Calcutta 1.
Hoechst Pharmaceuticals P. Ltd.—6, Ganesh Ch. Avenue, Calcutta 13.
Imperial Chemical Industries (I) Ltd.—34, Chowringhee, Calcutta 16.
Indian National Drug Co. P. Ltd.—5/2, Bellaghata Main Road, Calcutta 10.
Indian Oxygen Ltd.—48-1, Diamond Harbour Road, Calcutta 27.
Indo-British Chemical Co.—32-2, Murari Pookur Road, Calcutta 4.
International Chemical Industries.—1038, U.C. Road, Calcutta 9.
Kanoria Chemicals & Industries Ltd.—9, Brabourne Road, Calcutta 1.
Kemp & Co. Ltd.—32/C, C.R. Avenue Road, Calcutta 12.
Lyndon Chemical Industries Ltd.—4, Rifle Road, Park Circus, Calcutta 17.
Martin & Harris Pvt. Ltd.—Mercantile Bldg., Lall Bazar, Calcutta 1.
May & Baker (India) Ltd.—7, Old Court House Street, Calcutta 1.
National Carbon Co.—5, Rustomjee Parsi Road, Calcutta-2.
Oriental Research & Chemical Laboratory Ltd.—61, Shree Aravinda Road, Calcutta 6.
Sandoz India Ltd.—3A, Shakespeare Sarani, Calcutta 16.
Shalimar Chemical Works Pvt. Ltd.—1, Chetla Central Road, Calcutta 27.
Shaw Wallace & Co.—Fertilisers Dept., 4, Bankshall St., Calcutta 1.
Smith Stanistreet & Co. Ltd.—18, Convent Road, Entally, Calcutta 14.
Stadmed P. Ltd.—18 Chowringhee Road, Calcutta 20.
Standard Industrial & Commercial Corp. Ltd.—24, Chittaranjan Avenue, Calcutta 12.
Standard Pharmaceuticals Ltd.—67, Dr. Suresh Sarkar Road, Calcutta 14.
Sterling Pharma Products Co. Ltd.—72-2, Sambhunath Pandit Street, Calcutta 25.
Swalka Oil Mills.—6, Station Road, Howrah, Calcutta 1.
Union Carbide India Ltd.—1, Middleton Street, Calcutta 16.
Universal Drug House (P) Ltd.—10, Bonfield Row, Calcutta 27.

CHEMICALS & PHARMACEUTICALS

Associated Agencies Co.—P-11, New Howrah Bridge Approach Road, Calcutta 1.
B. R. Harman & Mohatta (India) Pvt. Ltd.—10, British India Street, Calcutta 1.

Bengal Chemicolour Co.—35, Armenian Street, Calcutta 1.
 Bengal Scientific & Chemical Supply Co.—100, Keshab Chandra Sen Street, Calcutta 9.
 Bharat Tubewell Co. P. Ltd.—118-A, Chittaranjan Avenue, Calcutta 7.
 Calcutta Trading Corp.—12, Lower Chitpur Road, Calcutta 1.
 Continental Trading Agency.—P-27, Princep Street, Calcutta 13.
 Eastern Industrial Corp.—142/1, Radhabazar Street, Calcutta 1.
 Great Indian Mercantile Co. (P) Ltd.—278, Chittaranjan Avenue, Calcutta 6.
 Hanuman Commercial Corp.—9, Bonfield Lane, Calcutta 1.
 Hindustan Chemical & Industrial Corp.—22, Brabourne Road, Calcutta 1.
 Hindustan Industrial Corporation.—1-A, S. N. Banerjee Road, Calcutta 13.
 Ind Com. Ltd.—P-16, Kalakar Street, Calcutta 7.
 Indo-European Agency P. Ltd.—67, Ezra Street, Calcutta 1.
 Industrial Chemical Corporation. 22, Brabourne Road, Calcutta 1.
 International Trading Co.—28 Old China Bazar Street, Calcutta.
 Jagadishprasad Pannalal & Co.—67/2 B Strand Road, Calcutta 7.
 Jiwraj Heeralal & Co.—26/1, Armenian Street, Calcutta-1.
 Khandelwal Bros. (P) Ltd.—33, Netaji Subhas Road, Calcutta.
 Khaitan Brothers P. Ltd.—24, Netaji Subhas Road, Calcutta.
 Manoharlal & Co.—19, Mullick Street, Calcutta 17.
 Mohamed Ibrahim Mohamed Jaffer & Co.—16, Amratolla Lane, Calcutta 1.
 N. N. Biswas & Sons.—19, British Indian Street, Calcutta 1.
 New India Chemicals.—52A, Indian Mirror Street, Calcutta 13.
 Oriental & Occidental Trading Co.—30, Brabourne Road, Calcutta.
 Pioneer Industrial Syndicate.—67, Ezra Street, Calcutta 1.
 Spices (India) Ltd.—10, Amratolla Street, Calcutta.
 United Chemical & Hardware Agency.—27/29, Brabourne Road, Calcutta 1.
 Universal Trading Co.—71/1, BRBB Road, Calcutta 1.
 Victor Commercial Co.—44/45, Ezra Street, Calcutta 1.
 West Bengal Supply Agency.—35, Armenian Street, Calcutta 1.

CIGARETTES

Imperial Tobacco Co. of India Ltd.—Virginia House, 37, Chowringhee, Calcutta 16.
 National Tobacco Co. of India Ltd.—1 & 2, Old Court House Corner, North Bldg., Calcutta 1.
 Union Tobacco Co. Ltd.—57A, B.T. Road, Calcutta 2.

CLEARING AND FORWARDING AGENTS

Atlas Agency.—20, Strand Road, Calcutta 1.
 Bharat Clearing and Forwarding Agency.—P27, Princep Street, Calcutta 13.
 Express Clearing Agency.—14/2, Old China Bazar Street, Calcutta.
 Free India Clearing Agency.—3, Mangoe Lane, Calcutta.
 International Clearing and Shipping Agency.—Tosh House, P. 31/31, India Exchange Place Extn., Calcutta 1.
 Oriental Clearing Agency.—9, Pollock Street, Calcutta 1.
 Pioneer Consolidated Co. of India Ltd.—2, Clive Row, Calcutta 1.
 Reliance Corporation Ltd.—6, Commercial Bldgs., Calcutta 1.
 R. Sen & Co.—10/1, Elgin Road, Calcutta 20.
 W. R. Hildreth & Co.—45, Stephen House, Dalhousie Sqr., Calcutta 1.

COLLIERY EQUIPMENTS

B.M.S. Engineering Works P. Ltd.—3-1, Kali Prosad Chakrabarty Lane, Howrah, Calcutta 1.
 G. N. Kolley and Sons Pvt. Ltd.—207, Belilios Road, Howrah, Calcutta 1.
 Howrah Engineering Concern P. Ltd.—153/154, Madhusudan Palchauthury Lane, Howrah, Calcutta 6.
 Howrah Iron & Steel Works P. Ltd.—90, Benaras Road, Howrah, Calcutta 6.
 Panchkosi Ghosh & Sons P. Ltd.—166, Belilios Road, Howrah, Calcutta 1.

CONDUIT PIPES

Great Eastern Pipe Works.—24C, Nimtolla Ghat Street, Calcutta 5.
 International Wire Nail Mfg. Co.—106, Andul Road, Sakli, Howrah.
 Kamala Street Metal Industries P. Ltd.—98 & 99, Beliaghata Main Road, Calcutta 10.
 Kedarnath Parsotamdas & Co. (Private) Ltd.—37, Netaji Subhas Road, Calcutta 1.
 S. D. Trading Co.—62, Netaji Subhas Road, Calcutta 1.

COTTON TEXTILE MACHINERY

India Machinery Co. Ltd.—29, Strand Road, Calcutta.
 Machinery Mfrs. Corp.—31, Chowringhee Road, Calcutta 16.

CYCLES & CYCLE ACCESSORIES

Bharat Steel & Metal Industries.—Kali Mazumdar Road, Mall-panchgora, Howrah.
 Bombay & Calcutta Cycle Co.—P-39, Princep Street, Calcutta 13.
 British & Continental Agency, 47A, C.R. Avenue, Calcutta 12.
 Calcutta Cycle Trading Co.—1, Bentinck Street, Calcutta 1.
 Calcutta Motor and Cycle Co.—5, Bentinck Street, Calcutta 1.
 Eagle Cycles Ltd.—3, New Tangra Road, Calcutta 15.
 Gobindo Sheet Metal Works & Foundry.—74, Narkeldanga Main Road, Calcutta 11.
 Hindustan Vehicles Ltd.—11, Clive Row, Calcutta 1.
 International Engineering Co.—17 Rafi Ahmed Kidwai Road, Calcutta 13.
 Kashi Cycle & Rickshaw Co.—P-25, Princep Street, Calcutta 13.
 National Cycle Importing Co., 21, Bentinck Street, Calcutta 1.
 Overseas Cycle Co.—3, Bentinck Street, Calcutta 1.
 Pioneer Cycle Co.—60, Bentinck Street, Calcutta.
 Republic Engineering Corporation Ltd.—7, Chowringhee Road, Calcutta 13.
 Universal Cycle Trading Corporation.—67, Bentinck Street, Calcutta.
 Zenith Cycle Co.—59, Bentinck Street, Calcutta 1.

CYCLES & MOTOR CYCLE MANUFACTURERS & DEALERS

Hindustan Bicycle Mfg. & Industrial Corp. Ltd.—28, Bepin Pal Road, Calcutta 26.
 International Engineering Co., The.—17, Rafi Ahmed Kidwai Road, Calcutta-13.
 Sen-Raleigh Ltd.—Mercantile Buildings, Lall Bazar Street, Calcutta 1.

DIESEL ENGINES & PARTS

Blackwood Hodge (India) Pvt. Ltd.—139, Beliaghata Road, Calcutta 15.
 Components & Machinery Corp.—9/12, Lal Bazar Street, Calcutta 1.
 Edward & Co.—35, Chittaranjan Avenue, Calcutta 12.
 General Trading Co.—138, BRBB Road, Calcutta 1.
 Indian National Diesel Engines Co., Ltd.—Hal & Anderson Bldg., Park Street, Calcutta 16.
 Industrial Gases Ltd.—15, Ganesh Chandra Avenue, Calcutta 13.
 Kilburn & Co. Pvt. Ltd.—2, Fairlie Place, Calcutta 1.
 Modern Engineering Co.—138, Canning Street, Calcutta 1.
 United Provinces Commercial Corporation, The.—4, Princep St., Calcutta 13.
 Voltas Limited.—8, Netaji Subhash Road, Calcutta.

DRAWING & SURVEYING INSTRUMENTS

Adair Dutt & Co. India P. Ltd.—5, Dalhousie Square East, Calcutta 1.
 B. Kelley & Sons.—27/1B, Simla Road, Calcutta 6.
 East End Engineers.—52, Bhopendra Bose Avenue, Calcutta 4.
 Eastern Distributing Co. of India.—14/2, Old China Bazar Street, Calcutta 1.
 Kilburn & Co. Ltd.—2, Fairlie Place, Calcutta 1.
 Killearn & Co.—106/C, Raja Dinendra Street, Calcutta 4.
 National Instruments Ltd.—Raja Subodh Mullick Road, Calcutta 32.
 Products India Ltd.—114, Stephen House, Dalhousie Sqr., Calcutta 1.
 Scientific Miscellany Co.—16, Pasupati Bose Lane, Calcutta 3.
 Simco, 2A, Kedar Dutt Lane, Calcutta 6.
 Survey Industries.—2A, Congress Exhibition Road, Calcutta 17.

EARTHMOVING MACHINERY & EQUIPMENT

Blackwood Hodge (India) Pvt. Ltd.—139, Beliaghata Road, Calcutta 15.
 Components & Machinery Corp.—9/12, Lal Bazar Street, Calcutta 1.
 Marshall Sons & Co. (India) Ltd.—33/1, Netaji Subhas Road, Calcutta 1.
 Tractors (India) Ltd.—1, Taratolla Road, Garden Reach, Calcutta 24.
 Voltas Limited.—8, Netaji Road, Calcutta.
 William Jacks & Co. Ltd.—16, Netaji Subhas Road, Calcutta 1.

ELECTRIC FANS

Aero Flow Co.—16, Mondal Temple Road, Calcutta 53.
 Bharat Electrical Industries Ltd.—6-A, S. N. Banerjee Road, Calcutta 13.
 Clyde Fan Co. Ltd.—21/2, Chowringhee Road, Calcutta 13.
 Engineering Works of India P. Ltd.—104, S. P. Mukherjee Road, Calcutta 26.
 General Electric Co. of India P. Ltd.—6, Chittaranjan Avenue, Calcutta 13.
 India Electric Works Ltd.—D.H. Road, Calcutta 34.

India Reconstruction Corpn. Ltd.—21-A, Gour Laha Street, Calcutta.
 Keymer Bagshawe & Co. (India) Pvt. Ltd.—22, Strand Road, Calcutta.
 Marconi Electric Corporation P. Ltd.—117, Keshab Sen Street, Calcutta 9.

ELECTRIC LAMPS MANUFACTURERS

Asia Electric Lamp Co. Ltd.—45, Durgacharan Mukherjee Street, Bagbazar, Calcutta.
 Bengal Electric Lamp Works Ltd.—7, Old Court House Street, Calcutta.
 Calcutta Electric Lamp Works Ltd.—3, Mangoe Lane, Calcutta 1.
 Electric Lamp Mfrs. (India) P. Ltd.—1, Taratolla Road, Garden Reach, Calcutta 24.
 Hindustan Lamps & Fluorescent Tubes Ltd.—22, Camac Street, Calcutta 1.
 India Industrial Works P. Ltd.—55/1, Dharamtolla Road, Salkia, Howrah Dist., Calcutta 6.
 Orient Works.—11, Central Sinter Road, Calcutta 50.
 Pradip Lamp Works.—45, Armenian Street, Calcutta.

ELECTRIC MOTORS, GENERATORS & SETS

Allied Electrical Corporation P. Ltd.—13, Canning Street, Calcutta 17.
 British India Electric Construction Co. Ltd.—14, Mayurbhanj Road, Calcutta 23.
 India Electric Works Ltd.—Diamond Harbour Road, Calcutta 34.
 Motor and Machinery Manufacturers Ltd.—3/1, Krishna Behari Sen Road, Calcutta 7.
 Power and Machinery (India) Ltd.—3, Mangoe Lane, Calcutta 1.

ELECTRICAL ENGINEERS, MFRS., DEALERS & CONTRACTORS

Associated Engineering Industries.—9, Lall Bazar Street, Mercantile Buildings, Calcutta 1.
BAJAJ ELECTRICALS LTD.—10, Ganesh Chandra Avenue, Calcutta 13. Marketing Electrical Consumer Goods, Electrical Engineers, Manufacturers & Contractors; Phone: 237041. Grams: "SOFTLITE"; Head Office at Bombay.
 Calcutta United Engineers Ltd.—10, British Indian Street, Calcutta 1.
 Consolidated Construction Co. Ltd.—P-12, Mission Row Extension, Calcutta 1.
 Eastern Electric Co.—41, Dharamtolla Street, Calcutta 13.
 Eastern Electric & Trading Co.—81, Chowringhee Road, Calcutta 16.
 Engineers Syndicate (India) Pvt. Ltd.—21, Old Court House Street, Calcutta 1.
 Friend's Engineering Co. Ltd.—6-A/1, Durga Pituri Lane, Calcutta 12.
 Garden Reach Workshops Ltd.—43/46, Garden Reach Road, Calcutta 24.
 General Electric Co. of India Pvt. Ltd.—Chittaranjan Avenue Calcutta 13.

ELECTRICAL GOODS & APPLIANCES

Associated Electrical Industries India Ltd.—13, R.N. Mukherjee Road, Calcutta 1.
 Associated Electro Mechanical Engineers P. Ltd.—7, Lower Chitpore Road, Calcutta 1.
 Bajaj Electricals Ltd.—10, Ganesh Ch. Avenue, Calcutta 13.
 Bella Electrical Corporation P. Ltd.—P-36, India Exchange Place, Calcutta 1.
 British Engineering Corpn.—3, Baretto Lane, Calcutta 1.
 British India Electric Construction Co. Ltd.—14, Mayurbhanj Road, Calcutta 13.
 Casting Corpn. (India) Ltd.—45, Madhusudan Pal Choudhary Lane, Howrah.
 Cleco Pvt. Ltd.—2/1, Barrackpore Trunk Road, Baranagore, Calcutta 50.
 Cyma Electric Works.—12, Chapel Road, Hastings, Calcutta 22.
 Durga Engineering Works.—145, Dharamtolla Street, Calcutta 13.
 Electric Construction & Equipment Co., Ltd.—9, Kaliprasanna Singhee Road, Calcutta 2.
 Electrical Industries Corpn.—49/1, Gariahat Road, Calcutta 19.
 English Electric Co. of India (Pvt.) Ltd.—D-3, Gillander House, 3, Netaji Subhas Road, Calcutta.
 General Electric Co. of India Pvt. Ltd.—6, Chittaranjan Avenue, Calcutta 13.
 Hindustan Electric Co. Ltd.—184, J. N. Mukerjee Road, Salkia, Howrah.
 Hindustan General Electrical Corpn. Ltd.—25, Brabourne Road, Calcutta 1.
 India Electric Works Ltd.—Diamond Harbour Road, Calcutta 34.
 Jay Engineering Works Ltd.—183-A, Prince Anwar Shah Road, Dhakuria, Calcutta 31.
 Kalinga Industries Ltd.—33, Chittaranjan Avenue, Calcutta 12.
 Motor & Machinery Mfrs. Ltd.—3/1, Krishna Behari Sen Street, Calcutta 7.
 Mullick, B. C. & Co.—25-A, Balaram Ghose Street, Calcutta 4.

National Conduits.—15, Ganesh Chandra Avenue, Calcutta 13.
 Orient General Industries Ltd.—6, Ghore Bibi Lane, Narkeldanga, Calcutta 54.
 Phillips India Ltd.—Phillips House, 7, J. C. Madhab Road, Calcutta 20.
 Power Transmission & Construction Co.—91, Netaji Subhas Road, Calcutta.
 Stone, J. & Co. (India) Pvt. Ltd.—6, Taratolla Road, Calcutta 53.
 Suburban Electrical Engineering Co. Private Ltd.—34-A, Ananda Palit Road, Calcutta 14.
 United Flash Light Industries P. Ltd.—46, Muraripukur Road, Calcutta 11.

ENGINEERS (MECHANICAL & ELECTRICAL), BUILDERS & CONTRACTORS

Associated Engineers P. Ltd.—24, Netaji Subhas Road, Calcutta 1.
 B. R. Herman & Mohatta India Pvt. Ltd.—16, British Indian St., Calcutta 1.
 Consolidated Construction Co. P. Ltd.—P-12, Mission Row Extn., Calcutta 1.
 Cyma Engineering Co.—223, Belilios Road, Howrah.
 Dodsai P. Ltd.—2, Brabourne Road, Calcutta 1.
 Don Watson & Co. Ltd.—19, British Indian Street, Calcutta 1.
 D. Wren & Co.—25, Swallow Lane, Calcutta 1.
 Engineers Overseas Corporation P. Ltd.—62, Allpore Road, Calcutta 27.
 Gannon Dunkerley & Co. Ltd.—23A, N.S. Road, Calcutta 1.
 Great Eastern Mechanical Works.—Ichapore Road, Calcutta.
 Hazra Engineering Co.—21/1A, Deshpriya Shasmal Road, Howrah.
 Hindustan Development Corporation Ltd.—27, Sir R. M. Mukherji Road, Calcutta 1.
 Hindustan Engineering & Construction Co.—2, Church Lane, Calcutta 1.
 Howrah Engineering Concern P. Ltd.—153-154, Madhusudan Pal Chowdhury Lane, Howrah.
 Ibeon P. Ltd.—2, Fairlie Place, Calcutta 1.
 International Combustion (I) P. Ltd.—101, Park St., Calcutta 16.
 Jessop & Co. Ltd.—63, Netaji Subhas Road, Calcutta 1.
 J. H. Fenner & Co. (I) Ltd.—56D, Free School Street, Calcutta 16.
 J. Sur & Co. P. Ltd.—3, Dalhousie Square East, Calcutta 1.
 Kuljian Corporation.—Park Street, Calcutta 16.
 Mansfield & Sons.—16, Radhanath Chowdhury Road, Calcutta 16.
 Motwane P. Ltd.—25, Chowringhee, Calcutta 13.
 National Planning & Construction Ltd.—16, Ganesh Chandra Avenue, Calcutta 13.
 Paterson Engineering Co. India P. Ltd.—30, C.R. Avenue Road, Calcutta 12.
 Sigma Engineering Co.—60, Dharamtolla Street, Calcutta 13.
 Sri Durga Engineering Works.—109, B. T. Road, Calcutta 35.

ENGINEERING

ACC-Vickers Babcock Ltd.—1 & 3, Brabourne Road, Calcutta 1.
 Acme Mfg. Co.—8/1, Esplanade East, Calcutta.
 American Refrigerators Co. 13C, Russell Street, Calcutta 16.
 Ancillary Industries Cranks P. Ltd.—Mercantile Bldgs., 9, Lall Bazar, Calcutta 1.
 Apeejay Structuralists Ltd.—15, Brabourne Road, Calcutta 1.
 Associated Aesby Industries Pvt. Ltd.—22, Strand Road, Calcutta 1.
 Atlas Works P. Ltd.—119, Ripon Street, Calcutta 16.
 Avery Co. of India P. Ltd.—28-2, Waterloo Street, Calcutta 1.
 B. R. Herman & Mohatta (India) P. Ltd.—16, British Indian Street, Calcutta.
 Babcock & Wilcox of India Ltd.—Ilaco House, 1 & 3, Brabourne Road, Calcutta 1.
 Batilbol Co. Pvt. Ltd.—P-34, Mission Row Extension, Calcutta 13.
 Bengal Industries.—23A, N.S. Road, Calcutta 1.
 Bengal Rolling Mills Ltd.—87B, Netaji Subhas Road, Calcutta 1.
 Bharat Barrel & Drum Mfg. Co. Ltd.—2, Garstin Place, Calcutta 2.
 Backwood Hodge (India) Pvt. Ltd.—103, Park Street, Calcutta 16.
 British India Electric Construction Co. Ltd.—14, Mayurbhanj Road, Calcutta 23.
 Burn & Co. Ltd.—Howrah Iron Works, 12, Mission Row, Calcutta.
 Calcutta Tramways Co. Ltd.—P4, Mission Row Extension, Calcutta 1.
 Ching Wah & Co.—118, Ripon St., Calcutta 16.
 Davy & United Engineering Co. Ltd.—6A, Middleton Street, Calcutta 16.
 Delta Engineering & Foundry Works.—195A, Muktaram Babu Street, Calcutta 7.
 Dewrance Macneill & Co. Ltd.—2, Fairlie Place, Calcutta 1.
 Diana Rolling Shutters & Engineering Works.—114, Princep Street, Calcutta 13.
 Dorman Long & Co. Ltd.—32, Jagat Banerjee Ghat, Calcutta 2.
 Eastern Equipment & Sales Ltd.—24B, Park Street, Calcutta 16.
 Electric Construction & Equipment Co. Ltd.—9, Kaliprasanna Singhee Road, Calcutta 2.
 Evre Smelting P. Ltd.—5, Hide Road, Calcutta 43.
 Godrej & Boyce Mfg. Co. Ltd.—23A, N. S. Road, Calcutta 1.
 Goodman & Co. (I) Pvt. Ltd.—38 Netaji Subhas Road, Calcutta 1.
 Greaves Cotton & Crompton Parkinson P. Ltd.—171/1, ALC Road, Calcutta 14.
 Gresham & Craven of India P. Ltd.—22, Gobra Road, South Entally, Calcutta 14.

Guest, Keen, Williams Ltd.—1, Middleton Street, Calcutta 16.
 Harshadray P. Ltd.—23, Brabourne Road, Calcutta 1.
 Hind Wire Industries Ltd.—P-18, Kalakar Street, Calcutta 7.
 Hindustan Development Corpn. Ltd.—27, Sir R. N. Mukherjee Road, Calcutta 1.
 Hoare Miller & Co. Ltd.—5, Fairlie Place, Calcutta 1.
 Hooghly Docking & Engineering Co. Ltd.—6, Howrah Road, Salkia, Howrah, Calcutta.
 Hope's Metal Windows India Ltd.—21, Netaji Subhas Road, Calcutta 1.
 Imperial Engineering Works.—122, Belilios Road, Howrah Calcutta 1.
 India Industrial Works P. Ltd.—55/1, Dharamtolla Road, Salkia, Howrah, Calcutta 16.
 Indian Iron & Steel Co. Ltd.—12, Mission Row, Calcutta 1.
 Indian Oxygen Ltd.—48/1, Diamond Harbour Road, Calcutta 27.
 Indian Standard Wagon Co. Ltd.—12, Mission Row, Calcutta 1.
 Industrial Containers Ltd.—21, Netaji Subhas Road, Calcutta 1.
 International Combustion (India) P. Ltd.—101, Park Street, Calcutta 16.
 J. B. Advani & Co. Pvt. Ltd.—27, N.S. Road, Calcutta 1.
 Jay Engineering Works Ltd.—Prince Anwarshah Road, Calcutta 31.
 Jessop & Co. Ltd.—63, Netaji Subhas Road, Calcutta 1.
 Jewell Filter Co. Ltd.—28, C.R. Avenue Road, Calcutta 12.
 K. T. Steel Industries P. Ltd.—20, Maharshi Debendra Road, Calcutta 7.
 Kamani Engineering Corpn. Ltd.—6/2, Moura Street, Calcutta 16.
 King Engineering Co.—157, Belilios Road, Howrah.
 Lagan Jute Machinery Co. P. Ltd.—2B, Chittaranjan Avenue, Calcutta 6.
 Lynx Machinery Ltd.—23/A, N.S. Road, Calcutta 1.
 Machinery Mfrs. Corpn. Ltd.—Anderson Bldg., 31, Chowringhee, Calcutta 16.
 Mahindra Engineering Co. Ltd.—5, Hide Road, Calcutta 43.
 Marshall Sons & Co. (India) Ltd.—33-1, Netaji Subhas Road, Calcutta 1.
 Martin Burn Ltd.—12, Mission Row, Calcutta 1.
 McGregor & Balfour Ltd.—18, Netaji Subhas Road, Calcutta 1.
 Metal Box Co. of India Ltd.—Barlow House, Chowringhee Road, Calcutta 20.
 Molins of India Ltd.—1C, Middleton Row, Calcutta 16.
 Mukand Iron & Steel Co. Ltd.—3A, Chowringhee Place, Calcutta 13.
 National Iron & Steel Co. Ltd.—51, Stephen House, 4, Dalhousie Square (East), Calcutta.
 National Steel Corporation Ltd.—138, BRBB Road, Calcutta 1.
 New Allenbury Works.—62, Hazra Road, Calcutta 19.
 Orient Steel & Wire Industries Pvt. Ltd.—2, Brabourne Road, Calcutta.
 Oriental Metal Inds. P. Ltd.—67, BBG Street, Calcutta 12.
 Otis Elevator Co. (India) Ltd.—1, Middleton St., Calcutta 16.
 Parry & Co. Ltd.—32, Chowringhee, Calcutta 16.
 Pioneer Iron & Steel Corpn.—119, Grand Trunk Road, Belurmath, Howrah.
 Ramkrishna Iron Works P. Ltd.—56, Sri Ramkrishna Mandir Path, North Bantra, Howrah.
 Reckitt & Colman of India Ltd.—41, Chowringhee Road, Calcutta 16.
 Robert Hudson (I) Ltd.—12, Mission Row, Calcutta 1.
 Shalimar Industries (Private) Ltd.—25, Ganesh Chandra Avenue, Calcutta 13.
 Shalimar Iron Works.—62, College Ghat Road, Shalimar, Howrah.
 Ship Repairers Ltd.—P9, Taratalla Road, Calcutta 24.
 Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.
 Stewarts & Lloyds of India Ltd.—41, Chowringhee Road, Calcutta 16.
 Stone, J. & Co. I. P. Ltd.—6, Taratalla Road, Calcutta 53.
 Tata Iron & Steel Co. Ltd.—23-B, Netaji Subhas Road, Calcutta 1.
 Textile Machinery Corpn., Ltd.—Belgharia, Calcutta 58.
 United Engineering (Eastern) Corpn.—22, BRBB Road, Calcutta 1.
 United Rolling Mills P. Ltd.—160, Girish Ghosh Road, P. O. Belurmath, Howrah.
 Victory Engineering Works.—40, Tangra Road, Calcutta 15.
 Wolverhampton Iron & Steel Co.—137, BRBB Road, Calcutta 1.

FERTILISERS & CHEMICAL PRODUCTS MFRS. & DEALERS

Beegos Manure Works.—21, Barwaritola Road, Calcutta 10.
 Harshad Ray Pvt. Ltd.—23, Brabourne Road, Calcutta 1.
 Imperial Chemical Industries (I) Pvt. Ltd.—18, Strand Road, Calcutta.
 Jalan Industries P. Ltd.—62, Ballygunge Circular Road, Calcutta 19.
 Mitter, R. C. & Sons.—54, Ramkanto Bose Street, Calcutta 3.
 Phosphate Co. Ltd.—14, Netaji Subhas Road, Calcutta 1.
 Shaw Wallace & Co. Ltd.—4/5, Banshall Street, Calcutta 1.

FILTER AND FILTER INSTALLATIONS

Calcutta Filter Mfg. Co.—62/1A, Netaji Subhas Road, Calcutta.
 Fritz & Singh P. Ltd.—227, N.S.O. Bose Road, Calcutta 47.

Gour Mohan Das & Co.—233, Old China Bazar Street, Calcutta 1.
 India Potteries Ltd.—91, Dharamtala Street, Calcutta 13.
 Jewell Filter Co.—28, Chittaranjan Avenue, Calcutta 12.
JOHN FOWLER (INDIA) LTD.—136-A, Rash Behari Avenue, Calcutta 29; Bombay Office : Marshalls Bldg., Ballard Road, Bombay 1; Sole Selling Concessionaires of "Vokes" Filtration Equipments.

FIRE FIGHTING EQUIPMENTS

BENGAL CHEMICAL & PHARMACEUTICAL WORKS LTD.—6, Ganesh Chunder Avenue, Calcutta 13; Pharmaceuticals, Heavy & Fine Chemicals, High Class Toilet Products, Coal Tar Distillation Products, Fire Extinguishers, Printing Inks, Driers, etc., Branch Offices : Bombay & Kanpur.
 Sur Enamel & Stamping Works Pvt. Ltd.—24, Middle Road, Entally, Calcutta 14.
 Technico (I).—3, B. B. Ganguli Street, Calcutta 12.
 William Jacks & Co. Ltd.—16, N. Subhas Road, Calcutta 1.

FOUNDRY AND FOUNDRY REQUISITES

Agarwal Hardware Works (P) Ltd.—167, Chittaranjan Avenue, Calcutta 1.
 Belur Iron Foundry & Engg. Works.—203/1, M. G. Road, Calcutta 7.
 Bengal Rolling Mills Ltd.—67B, Netaji Subhas Road, Calcutta 1.
 Calcutta Iron & Engg. Co. (P) Ltd.—48, BRBB Road, Calcutta 1.
 Garden Reach Workshops Ltd.—43/46, Garden Reach Road, Calcutta 24.
 Hind Overseas (P) Ltd.—7, Narain Prasad Babu Lane, Calcutta 7.
 Indian Malleable Castings Ltd.—4, Lyons Range, Calcutta.
 Premier Iron & Steel Works Ltd.—North Bantra Belgachia Road, Howrah, Calcutta 5.
 Shalimar Iron & Steel Industries.—P-84, Benaras Road, Belgachia, Howrah, Calcutta 6.
 Shree Krishna (P) Ltd.—20, Mangoe Lane, Calcutta.
 Tatanagar Foundry Co. Ltd.—51, Stephen House, Calcutta 1.
 Textile Machinery Corpn. Ltd.—Belgharia, Calcutta 56.
 Wesman Engineering Co. Private Ltd.—1/2, Allenby Road, Calcutta 20.

FURNITURE AND FITTINGS MANUFACTURERS & DEALERS

Art Furnishers Pvt. Ltd.—3, Southern Avenue, Calcutta 26.
 Calcutta Cabinet Co.—66, Bow Bazar Street, Calcutta 12.
 Calcutta Furniture Works Ltd.—69/1, S. K. Deb Road, Calcutta 28.
 Eastern Furnishers.—62, BBG Street, Calcutta 12.
 Fashion Furnishers.—264B, Bowbazar Street, Calcutta 12.
 Goodearth Industrial Corpn.—P-14, New C.I.T. Road, Calcutta 12.
 Inter-Continental Exports.—12-B, N. Subhas Road, Calcutta 1.
 Modern Furnishers.—38, Park Mansion, Calcutta 16.
 National Syndicate.—7, Hare Street, Calcutta 1.
 Standard Cabinet Co., Ltd.—32A, Chittaranjan Avenue, Calcutta 12.

GALVANISED SHEET MERCHANTS

Anandji Haridas & Co. (P) Ltd.—20, Maharshi Debendra Road, Calcutta.
 Balmer Lawrie & Co. Ltd.—21, Netaji Subhas Road, Calcutta 1.
 Chandra Kanta Manna & Co. (P) Ltd.—20, Maharshi Debendra Road, Calcutta 1.
 G. C. Gupta & Co.—261, Bowbazar Street, Calcutta 12.
 Makhan Lal Dey & Sons (P) Ltd.—D/15, Jagannath Ghat, Calcutta 7.
 Natabar Paul & Co. (P) Ltd.—19, Maharshi Debendra Road, Calcutta 7.
 Paul & Co. (P) Ltd.—20/2B, Maharshi Debendra Road, Calcutta 7.
 Steel Traders (P) Ltd.—Stephen House, Dalhousie Square, Calcutta 1.

GLASS & GLASSWARE MFRS. & DEALERS

Annapurna Glass Works Pvt. Ltd.—583/1, B1 'N' New Alipore, Calcutta 33.
 Belur Glass Works Ltd.—203/1, Mahatma Gandhi Road, Calcutta 7.
 Calcutta Glass & Silicate Works (1936) Pvt. Ltd.—9, Kundu Lane, Belgachia, Calcutta 37.
 Fotie Lal Seal & Sons P. Ltd.—10, Swallow Lane, Calcutta 1.
 Glass Syndicate P. Ltd.—30/1, Grey Street, Calcutta 5.
 Hindustan Pilkington Glass Works Ltd.—Hindustan Bldgs., 4, Chittaranjan Avenue, Calcutta 13.
 Hindustan Safety Glass Works Pvt. Ltd.—7, Chittaranjan Avenue, Calcutta 13.
 Hirji & Co. Pvt. Ltd.—20, Pollock Street, Calcutta 1.
 Indo Asahi Glass Co. Ltd.—30, Chittaranjan Ave., Calcutta 12.
 Metro Glass Works Pvt. Ltd.—20, Netaji Subhas Road, Calcutta 1.
 Premier Scientific Glass Co.—26/2A, Prasanna Kumar Tagore Street, Calcutta 6.
 Scientific Glass Works.—35, Gopal Chatterjee Road, Calcutta 2.
 Serakella Glass Works Pvt. Ltd.—Konnagar, Hooghly Dist.
 Somyan Glass Works.—66, G.T. Road, Lilacoh, Howrah.
 Victoria Glass Works Pvt. Ltd.—10, Clive Bow, Calcutta 1.

HARDBOARDS

Anil Hardboard Ltd.—P46/A, CIT Sch. XLV, Radha Bazar Lane, Calcutta.
 Assam Hardboards Ltd.—14/1B, Ezra Street, Calcutta 1.
 Ranvir & Co.—262, Bowbazar St., Calcutta 12.
 Robsan & Co. P. Ltd.—P-14, Mission Row Extension, Calcutta 1.

HARDWARE MANUFACTURERS

Assam Bengal Hardwares P. Ltd.—113, N. Subhas Road, Calcutta 7.
 Bharat Hardware Industries.—14, N. Subhas Road, Calcutta 1.
 C. D. Industries.—33, Dharamtolla Street, Calcutta 13.
 Daw & Brothers.—14, Raja Woodmunt Street, Calcutta 1.
 Gobindo Sheet Metal Works & Foundry—210, Harrison Road, Calcutta 7.
 Golden Steel Corporation.—64, G. T. Road, Lillooah, Howrah.
 Shanker Industries.—192, J. L. Bazaz Street, Calcutta 7.

HARDWARE MERCHANTS

Ajit Brothers.—115, Netaji Subhas Road, Calcutta 1.
 A. K. Mookerjee & Co.—79, N. Subhas Road, Calcutta 1.
 B. C. Paul S. N. Dey & Co.—115, Netaji Subhas Road, Calcutta 1.
 Bombay Hardware Mart.—79, Netaji Subhas Road, Calcutta 1.
 Calcutta Hardware Store.—11011, Amherst Street, Calcutta 9.
 Commercial Stores Co.—37, Netaji Subhas Road, Calcutta 1.
 Dattas India Private Ltd.—24, Strand Road, Calcutta 1.
 Evershine Tools.—51, B.R.B.B. Road, Calcutta 1.
 Harrison Agency.—71-A, N. Subhas Road, Calcutta 1.
 Indestro (India) Agency.—138, Canning Street, Calcutta 1.
 Industrial Importers Pvt. Ltd.—4, Dalhousie Square East, Stephen House, Calcutta 1.
 International Hardware Co.—6, Temple St., Calcutta 13.
 Jostle Trading Co.—137, Canning Street, Calcutta 1.
 Kailash Hardware & Tools Co.—224, Harrison Road, Calcutta 7.
 Khandelwal Bros. Pvt. Ltd.—33, Netaji Subhas Road, Calcutta 1.
 Loke Nath Chatterjee & Sons.—18, Raja Woodmunt Street, Calcutta 1.
 Morris Balfour & Co.—25, Netaji Subhas Road, Calcutta 1.
 Motiram Agarwal & Co. Pvt. Ltd.—137, Canning Street, Calcutta 1.
 Olympic Trading Corporation.—25, Swallow Lane, Calcutta 1.
 Parkash Impex.—18, Netaji Subhas Road, Calcutta 1.
 P. B. Shah & Co., Pvt. Ltd.—73, Netaji Subhas Road, Calcutta.
 Rajendranath Mullick & Co. P. Ltd.—20, Maharshi Debendranath Road, Calcutta 7.
 Robsan & Co. P. Ltd.—P-14, Mission Row Extn., Calcutta 1.
 S. Abbas & Co.—12B, Clive Row, Calcutta 1.
 Steel Tools (India).—67B, N. Subhas Road, Calcutta 1.
 T. M. Fakhri & Co.—26E, N. Subhas Road, Calcutta 1.
 Vulcan Electric & Engineering Co.—12-B, Lower Chitpur Road, Calcutta 1.
 Wire Products Agency.—109, N.S. Road, Calcutta 1.

HOTELS

(See Page 11.)

IMPORTERS & EXPORTERS

Abdul Karim Noor Mohamed & Co.—59, BRBB Road, Calcutta 1.
 Adair, Dutt & Co. (India) Private Ltd.—Stephen House, 5, Dalhousie Square East, Calcutta 1.
 American Pipe Co.—135, BRBB Road, Calcutta-1.
 B. Patnaik (Mines) Pvt. Ltd.—33, Chittaranjan Avenue, Calcutta 12.
 Basmail & Co. (I) Pvt. Ltd.—Bangur Avenue, Calcutta 28.
 Bengal Minerals Supply Co.—71-A, Netaji Subhas Road, Calcutta 1.
 Bubna More & Co.—23A, N.S. Road, Calcutta 1.
 Central Trading Co.—137, BRBB Road, Calcutta 1.
 Chowgule & Co. (Hind) Ltd.—"Laha Paint House", 7, Chittaranjan, Avenue, Calcutta 13.
 Dawjee Dadabhoj & Co.—67, BRBB Road, Calcutta 1.
 East India Commercial Co. Pvt. Ltd.—38, Netaji Subhas Road, Calcutta 1.
 Eastern Cotton Co.—14/2, Old China Bazar Street, Calcutta 1.
 Ess Lahiri & Co. (Private) Ltd.—2, Church Lane, Calcutta 1.
 Garg & Sons.—15, Ganesh Chandra Avenue, Calcutta 13.
 Hanumanbux Surajmali Pvt. Ltd.—20, R. N. Mukherjee Road, Calcutta 1.
 Hira Trading Co.—54, Ezra Street, Calcutta 1.
 India Steel Agencies.—67-B, Netaji Subhas Road, Calcutta 1.
 Industrial Traders.—138, Canning Street, Calcutta.
 International Exporters Pvt. Ltd.—178, Mahatma Gandhi Road, Calcutta 7.
 International Machines Corporation.—16, BRBB Road, Calcutta 1.
 Jannadas & Co.—27, Amratolla Lane, Calcutta 1.
 Jankidas Ramgopal.—48, Canning Street, Calcutta 1.
 Kajaria Sons Pvt. Ltd.—32, Armenian Street, Calcutta 1.
 Kanodia & Co.—149, Cotton Street, Calcutta 7.
 Kanol (India) Ltd.—P-8, Mission Row Extension, Calcutta 1.
 Kedarnath Parsotamdas & Co. Pvt. Ltd.—37, Netaji Subhas Road, Calcutta 1.
 Lotus Industries Ltd.—22, Zakaria Street, Calcutta 1.
 Metal Distributors Ltd.—38, Strand Road, Calcutta 1.

Motihari Enterprises Ltd.—178, Harrison Road, Calcutta 7.
 Murarka (Overseas) Pvt. Ltd.—156, J.L. Bazaz Street, Calcutta.
 Murlidhar Jhunjhunwala Ltd.—22/24, Radha Bazar Street, Calcutta 7.
 Orient Engineering & Commercial Co. Ltd.—25, Brabourne Road, Calcutta 1.
 Power Farming Ltd.—165, Lower Clifford Road, Calcutta 1.
 Punjab Cloth Mills Ltd.—20, Tarachand Dutt Street, Calcutta 1.
 R. McDill & Co. Private Ltd.—34/B, Ratu Sarkar Lane, Calcutta.
 S. A. Torab & Co. (Export Dept.).—55, BRBB Road, Block 'C', Mehta Buildings, Calcutta 1.
 S. Lal & Co. Private Ltd.—15, Chittaranjan Avenue, Calcutta 13.
 Shree Kamala Agency.—23, Canning Street, Calcutta 1.
 Shree Shew Sakti Oil Mills Ltd.—14, Netaji Subhas Road, Calcutta 1.
 Shree Shivagouri Oil Mills.—4, Synagogue St., Calcutta 1.
 Standard Radio & Winding House Private Ltd.—1, Chandney Chowk Street, Calcutta 13.
 Swaika Vanaspati Pvt. Ltd.—Goushala Road, Lillooah, Calcutta.
 United India Trading Co.—2A, Girish Avenue, Calcutta 3.
 United Provinces Commercial Corporations.—4, Princep Street, Calcutta 13.
 Vasant Corporation Private Ltd.—8, Amratolla Street, Calcutta 1.

INK MANUFACTURERS

Bagchi, P. M. & Co. Ltd.—19, Gulu Ostagar Lane, Calcutta 6.
 Chemproducts Co.—12, Tamer Lane, Calcutta 9.
 Griplex (India) Ltd.—C6, Gillander House, 8, Netaji Subhas Road, Calcutta 1.
 Hooghly Ink Co. Pvt. Ltd.—67/A, Ballygunge Circular Road, Calcutta 19.
 Lily Chemical Works.—3, Ramkanta Sen Lane, Calcutta 4.
 Rainbow Industries Pvt. Ltd.—2/2A, Armenian Street, Calcutta 1.
 Rapidol Industries Co.—24-E, Sura 3rd Lane, Beliagatta, Calcutta 10.
 Super Toilet & Chemical Co. (Private) Ltd.—80, Cornwallis Street, Calcutta 6.
 True Ink Mfg. Co.—79, R. A. K. Road, Calcutta 13.
 Unita Trading Co.—76, Acharya J. B. Road, Calcutta-14.

INSURANCE COMPANIES

INDIAN TRADE & GENERAL INSURANCE CO. LTD.—Regd.
 Office: 25, Brabourne Road, Calcutta 1; Principal Office:
 Jehangir Building, Mahatma Gandhi Road, Bombay 1;
 Grams: "ADASTRA"; Phone: 254924; Business Transacted
 —Fire, Marine, Motor and Miscellaneous.

IRON & STEEL

Aninchand Payare Lal Ltd.—15, Brabourne Road, Calcutta 1.
 Anandji Haridas & Co. Ltd.—20, Maharshi Debendra Road, Calcutta 7.
 Bengal Corpn. (P) Ltd.—Ltd.—4, Ganesh Chandra Avenue, Calcutta 13.
 Bharat Oversea (P) Ltd.—18-B, Brabourne Road, Calcutta 1.
 Birmingham Iron & Steel Co.—8, Canning Street, Calcutta 1.
 Calcutta Iron & Co. Pvt. Ltd.—65-A, Netaji Subhas Road, Calcutta 1.
 Calcutta Iron Syndicate Pvt. Ltd.—8-1, Maharshi Debendra Road, Calcutta 7.
 Chatterjee Paul & Co.—26, Wellington Street, Calcutta 12.
 Das Iron & Steel Co.—98, Jessore Road, Calcutta 28.
 Ganga Narayan Paul & Co.—22, Maharshi Debendra Road, Calcutta.
 Ganges Agencies (P) Ltd.—32, Cross Street, Calcutta 7.
 Hemanta Kumar Deyasi & Bros. (P) Ltd.—21, Maharshi Debendra Road, Calcutta 7.
 Howrah Metal Mart.—6, Maharshi Debendra Road, Calcutta 7.
 Imperial Iron & Steel Co.—28, Strand Road, Calcutta 1.
 Indian Iron & Steel Co. Ltd.—12, Mission Row, Calcutta 1.
 Indu Bhusan Dutt & Co.—D/7, Juggernath Ghat, Calcutta-7.
 Janson Iron & Steel Co.—80, Colootola Street, Calcutta 1.
 Jeetnarain Ghose & Co.—36, Strand Road, Calcutta 1.
 Kamala Prosad & Co.—74J, Bondil Road, Calcutta 19.
 Machine Techno (Sales) P. Ltd.—33, Netaji Subhas Road, Calcutta.
 Metal Import (P) Ltd.—15, Brabourne Road, Calcutta 1.
 Narayandass & Co.—D/5, Jagannath Ghat, Calcutta 7.
 Natabar Paul & Co. (P) Ltd.—19, Maharshi Debendra Road, Calcutta 7.
 National Iron & Steel Co. Ltd.—4, D. Square East, Calcutta 1.
 National Rolling & Steel Ropes Ltd.—Nikko House, Hare Street, Calcutta 1.
 National Steel Corpn.—138, B.R.B.B. Road, Calcutta 1.
 Nundy Brothers (P) Ltd.—3/3, Maharshi Debendra Road, Calcutta 7.
 Orissa Steel Corpn. P. Ltd.—39, Strand Road, Calcutta 1.
 P. Paul & Bros. (P) Ltd.—39/B, Nimal Chandra Street, Calcutta 12.
 Phanindra Nath Manna & Co. P. Ltd.—20, Maharshi Debendra Road, Calcutta 7.
 Rajendra Nath Mullick & Co. (P) Ltd.—20, Maharshi Debendra Road, Calcutta 7.
 R. K. Ghose & Co.—41, Wellington Street, Calcutta.
 Rakhaldas Mullick & Co.—14/D, Jagannath Ghat Road, Calcutta 7.
 Saroj Iron & Steel Co. P. Ltd.—85-1, Upper Chitpur Road, Calcutta 6.
 Santosh Kumar Mullick & Son P. Ltd.—D/5, Jagannath Ghat, Calcutta 7.

Sharma & Co.—2, Maharshi Debendra Road, Calcutta.
 Shyam Lal Sil & Co.—D/26, Jagannath Ghat, Calcutta 7.
 Shyamdas Nundy & Son.—D/27, Jagannath Ghat, Calcutta.
 Steel & Allied Products Ltd.—6, Little Russell Street, Calcutta-16.
 Steelverse & Co. (1960) P. Ltd.—5, Commerce Building, Calcutta 1.
 Tata-Scob Dealers (Controlled Stock) Calcutta Ltd.—20, Strand Road, Calcutta.
 United Steel & Bearing Co.—5-B, Clive Ghat Street, Calcutta 1.
 Upendra Nath Mullick & Co.—55, Nalini Sett Road, Calcutta.
 Vora Brothers (P) Ltd.—47, Ezra Street, Calcutta 1.

JUTE MILLS

Alliance Jute Mills Co., Ltd.—8, Netaji Subhas Road, Calcutta 1.
 Bengal Jute Mill Co., Ltd.—493, G. T. Road, Howrah, Calcutta 2.
 Budge-Budge Jute Mills Co., Ltd.—8, Clive Row, Calcutta 1.
 Caledonian Jute Mills Co., Ltd.—9, Brabourne Road, Calcutta 1.
 Clive Mills Co. Ltd.—43/1, G. R. Road, Calcutta 43.
 Delta Jute Mills Co., Ltd.—8, Clive Row, Calcutta 1.
 Fort William Jute Co., Ltd.—14, Netaji Subhas Road, Calcutta 1.
 Gourepore Co. Ltd.—2, Fairlie Place, Calcutta 1.
 Hastings Mill Ltd.—14, Netaji Subhas Road, Calcutta 1.
 Hooghly Mills Co., Ltd.—10, Clive Row, Third Floor, Calcutta 1.
 Hukumchand Jute Mills Ltd.—9, Brabourne Road, Calcutta 1.
 India Jute Co. Ltd.—16, Strand Road, Calcutta 1.
 Kanoria Co., Ltd.—Brabourne Road, Calcutta 1.
 Kedarnath Jute Mfg. Co., Ltd.—Jatindra Mohan Avenue, Calcutta 5.
 Luxmi Jute Mills Ltd.—5, Clive Row, Calcutta 1.
 Naskarpara Jute Mills Co. Ltd.—220, Naskarpara Road, Howrah, Calcutta 1.
 New Central Jute Mills Co., Ltd.—11, Clive Row, Calcutta 1.
 Premchand Jute Mills Ltd.—81, Shova Bazar Street, Calcutta 5.
 Reliance Jute Mills Co., Ltd.—9, Brabourne Road, Calcutta 1.
 Shree Ambica Jute Mills Ltd.—23A, N. S. Road, Calcutta 1.
 Shree Gouri Shankar Jute Mills Pvt. Ltd.—10, Clive Row, Calcutta.
 Shree Mahadeo Jute Mills.—123A, N. S. Road, Calcutta 1.
 Titaghur Jute Factory Co. Ltd.—2 & 3, Clive Row, Calcutta 1.
 Victoria Jute Co., Ltd.—2 & 3, Clive Row, Calcutta 1.

LEATHER & LEATHER PRODUCTS

Bata Shoe Co. Pvt. Ltd.—30, Shakespeare Sarani, Calcutta 17.
 Calcutta Tanneries (1944) Ltd.—96, G. R. Road, Calcutta 23.
 E. B. Leather Mfg. Co.—76-A, Upper Circular Road, Calcutta-9.
 Glace Kid (India) Pvt. Ltd.—75, Ganesh Chandra Avenue, Calcutta 13.
 Hindustan Tannery.—129, South Tangra Road, Calcutta 15.
 Industrial Leather & Rubber Works.—21, Benigatola Lane, Calcutta-9.
 Industrial Leathers Co.—3-1, Indra Roy Road, Calcutta 25.
 Jardine Henderson Ltd.—4, Clive Row, Calcutta 1.
 Kohinoor Leather Co. Pvt. Ltd.—14, Bentinck Street, Calcutta 1.
 Leather Chemicals & Industries Ltd.—9, Muraripukur Road, Calcutta 4.
 National Chamols Works.—6, Mangoe Lane, Calcutta 1.
 National Tannery Co. Ltd.—Canal South Road, Calcutta 15.
 Victory Leather Works.—32, Dalhousie Sq. (East), Calcutta 1.

LOCK AND SAFE MANUFACTURERS & DEALERS

Bengal Iron Safe & Lock Works.—120, Sovabazar Street, Calcutta 5.
 Bombay Safe & Steel Works P. Ltd.—56, N. Subhas Bose Road, Calcutta 1.
 Economic Tanks Supply Co.—100, M. G. Road, Calcutta 7.
 Godrej & Boyce Mfg. Co. P. Ltd.—23A, N. S. Road, Calcutta 1.
 Orient Safe & Cabinet Mfg. Co. Pvt. Ltd.—133, Canning St., Calcutta 1.
 Sanial & Co.—22, BRBB Road, Calcutta 1.
 W. Bengal Lock Mfg. Co.—c5, N. Subhas Road, Calcutta 1.

MACHINE TOOLS

Alfred Herbert (India) Pvt. Ltd.—13-3, Strand Road, Calcutta 1.
 Associated British Machine Tool Makers (India) Ltd.—21, Carnae Street, Calcutta 16.
 Bengal Iron & Steel Works.—8, Canning Street, Calcutta 1.
 Bharatiya Machine Tools Co. Ltd.—370, Upper Chitpur Road, Calcutta 6.
 Calcutta Machine Tools Corp.—10, Clive Row, Calcutta 1.
 Dutton Engineering Corporation Pvt. Ltd.—5, Mahendra Chandra Garden Road, Dum Dum, Calcutta 30.
 Eastern Machinery Corporation.—28, Strand Road, Calcutta 1.
 Heatly & Gresham Ltd.—31, Chittaranjan Avenue, Calcutta 7.
 Hindusthan Machine Tools Corporation.—35, Netaji Subhas Road, Calcutta.
 India Machinery Co. Ltd.—Dasnagar House, Calcutta 5.
 Industrial Gases Ltd.—15, Ganesh Chandra Avenue, Calcutta 13.
 K. B. Paul & Co.—127, Bellios Road, Howrah.
 Luxmi Engineering Co. Pvt. Ltd.—123, Narasingha Dutta Road, Howrah.
 Machine Tools (I) Pvt. Ltd.—Wimet House, Russell Street, Calcutta 16.
 Machine Tools (Sales) India—35, Chittaranjan Ave., Calcutta 12.
 Machine Tools Traders Calcutta—25, Ganesh Ch. Avenue, Calcutta 13.

Metal & Alloy Corp.—38A, Belgachia Road, Calcutta 37.
 Modern India Machine Tools Pvt. Ltd.—18/1/6, Canal West Road, Calcutta 9.
 National Machine Tools Co.—10-10, Brindaban Mullick Lane, Howrah.
 New India Tools Mfg. Co.—Singhi Park, 48, Gariahat Road, Calcutta 19.
 Philips India Pvt. Ltd.—Ltd.—7, Justice Chandra Madhab Road, Calcutta 20.
 Prafulla Narayan Engineering Co.—P-14, Mission Row Extn., Calcutta 1.
 Republic Traders Corp.—25, R. N. Mukherjee Road, Calcutta 1.
 Salkia Industrial Works.—195-1, Grand Trunk Road, 25, R. N. Mukherjee Road, N. Howrah.
 Ultra Engineering Co.—172-8, Madhusudan Pal Chowdhury Lane, Howrah.
 Vulcan Machine & Tool Co.—218, Manicktalla Mani Road, Calcutta 11.
 William Jacks & Co. Ltd.—16, Netaji Subhas Road, Calcutta 1.

MACHINERY MANUFACTURERS & DEALERS

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Atlas Works Pvt. Ltd.—119, Ripon Street, Calcutta 16.
 Bengal Hardware & Tin Seal Manufacturing Co.—70, Netaji Subhas Road, Calcutta 1.
 Bengal Machinery Co. Pvt. Ltd.—9A, New Tangra Road, Calcutta 46.
 Calcutta Engineering & Mfg. Co.—108-1, Benaras Road, Howrah-6.
 Eastern Industrial Corporation.—142/1, Radhabazar Street, Calcutta 1.
 Great Eastern Foundry Works.—76/12, Calcutta 1.
 Howrah City Engineering Co. Pvt. Ltd.—Deshpran Sasmal Road, Howrah 1.
 Kusum Engineering Co. Ltd.—25, Swallow Lane, Calcutta 1.
 Machinery Manufacturers Corp. Ltd.—31, Chowringhee Road, Calcutta 16.
 Modern India Machine Tools Pvt. Ltd.—18-1-6, Canal West Road, Calcutta 9.
 Oriental Electrical & Engg. Co. Ltd.—1 & 2, Old Court House Corner, Calcutta 1.
 Precision Industries P. Ltd.—Pashupati Bhattacharya Road, Behala, Calcutta 41.
 Rockfield Corporation.—40B, Princep Street, Calcutta 13.
 Small Machineries Manufacturing Co.—22, R. G. Kar Road, Calcutta 4.
 Standard Machinery Co.—67-B, Netaji Subhas Road, Calcutta 1.
 Vulcan Machine & Tool Co.—218, Manicktalla Main Road, Calcutta 11.

METAL MANUFACTURERS & MERCHANTS

Bengal Metal & Engg. Co.—20, Mullick Street, Calcutta 7.
 Bengal Metal Product Co.—18, Ramsevak Mullick Lane, Calcutta 7.
 Daga Metal Trading Co.—42, Netaji Subhas Road, Calcutta 1.
 Day Bose & Co.—34, Strand Road, Calcutta 1.
 Ghose Mundal & Co.—71-A, Netaji Subhas Road, Calcutta 1.
 Hardware & Marine Stores Agency.—70, Netaji Subhas Road, Calcutta.
 Jeet Narain Ghosh & Co.—38, Strand Road, Calcutta 1.
 Lucky Engineering Works Pvt. Ltd.—39, Strand Rd., Calcutta.
 Manton & Martin.—70, Netaji Subhas Road, Calcutta 1.
 Metallizing Corporation P. Ltd.—9, Waterloo St., Calcutta 1.
 National Alloy & Metal Works Ltd.—17, Nobin Ch. Das Lane, Calcutta 50.
 Nundon & Co. (P) Ltd.—62, Netaji Subhas Road, Calcutta 7.
 Orient Traders.—8, M.G. Road, Calcutta 41.
 Ratanchand Joraji & Co.—1, Portuguese Church Street, Calcutta 1.
 Calcutta 13.
 Rolls Metal Products Co. Ltd.—6, Chowringhee Road, Calcutta 13.
 Standard Metal Co.—101, N. Subhas Road, Calcutta 1.
 Stannic Metals and Alloy Ltd.—76, Wellesley St., Calcutta 16.
 United Metal Industries.—14, Noormull Lohia Lane, Calcutta 7.

MILL & GIN STORES SUPPLIERS

Allied Textile Agency.—63, Radhabazar Street, Calcutta 1.

Bengal Engineering Co.—93, Shree Kissan Vasant Lane, Howrah 1.
Bengal Machinery Co.—24, Strand Road, Calcutta 1.
Bharat Hardware & Textile Syndicate.—14, Netaji Subhas Road, Calcutta.

Fenner J. H. & Co. India Ltd.—56D, Free School Street, Calcutta 16.
Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta 1.
Greentose Corporation (India).—37, Strand Road, Calcutta 1.

Indusco Traders.—14/2, Old China Bazar Street, Calcutta 1.
International Trading Co. (Engn.).—22 Netaji Subhas Road, Calcutta 1.

Kilburn & Co. P. Ltd.—2, Fairlie Place, Calcutta 1.
Leather & Steel Products.—26, Burtolla St., Calcutta 7.

Mundra & Co.—8, Canning Street, Calcutta 1.
Rex Corporation (India).—71-A, Netaji Subhas Road, Calcutta-1.
Spinning Accessories Pvt. Ltd.—6, Nawab Dilar Jung Road, Calcutta 2.

Wren & Co., D.—25, Swallow Lane, Calcutta 1.

MINERALS

Bengal Minerals, Supply Co.—71-A, N. Subhas Road, Calcutta 1.
Bharat Mineral Sales Corp.—1/A, Vansittart Row, Calcutta 1.
Calcutta Mineral Supply Co. P. Ltd.—31, Jackson Lane, Calcutta 1.
Chandi Charan Nayak P. Ltd.—124/1, Bowbazar St., Calcutta 12.
India Minerals & Associated Industries.—12-B, Netaji Subhas Road, Calcutta 1.

Indian Mineral Industries Ltd.—22-1, & 22-C, Dum Dum Road, Calcutta 2.

Indo-European Agency P. Ltd.—67, Ezra Street, Calcutta 1.

Refractories & Minerals Syndicate Pvt. Ltd.—20, Netaji Subhas Road, Calcutta 1.

R. M. Industries.—1, Shibbota Lane, Shibpur, Calcutta, Howrah.
Star Minerals Syndicate Ltd.—33, Canning Street, Calcutta 1.

Swaika Group of Industries.—18-B, Brabourne Road, Calcutta 1.

Universal Graphite & Mineral Products Works.—11, Kishen Dayal Jalan Road, Howrah.

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NON-FERROUS METALS

Aluminium Corp. of India Ltd.—7 Council House Street, Calcutta 1.
Ashok Metal Industries Ltd.—157, Netaji Subhas Road, Calcutta 1.

Binal Ingot Co. Ltd.—5, Hide Road, Calcutta 43.

Binani Metal Works (P) Ltd.—38, Strand Road, Calcutta 1.

British Metal Corp. (I) P. Ltd.—22, Chittaranjan Ave., Calcutta 13.

Eyre Smelting Pvt. Ltd.—5, Hide Road, Calcutta 43.

Ganga Metal Refining Co. Ltd.—43 Strand Road, Calcutta 7.

Hindustan Metal Works.—48, Dum Dum Road, Calcutta 30.

Indian Aluminium Co. Ltd.—1, Middleton Street, Calcutta 16.

Indian Cable Co. Ltd.—9, Hare Street, Calcutta 1.

Indian Oxygen Ltd.—48/1, Diamond Harbour Road, Calcutta 27.

Kamani Metals & Alloys Ltd.—6/2, Moira Street, Calcutta 16.

Kedia Commercial Co.—P3, Lalakar St., Calcutta 7.

Metal Corp. of India Ltd.—135, Canning Street, Calcutta 1.

Metals & Ores Co.—Transport Depot Road, Alipore, Calcutta 27.

National Pipes & Tubes Co. Ltd.—2, Hare Street, Calcutta 1.

Non-Ferrous Metal Industries Pvt. Ltd.—42/1, Strand Road, Calcutta 7.

Orient Traders.—42/1, Strand Road, Calcutta 7.

Robsan & Co. Pvt. Ltd.—P-14, Mission Row Extn., Calcutta 1.

Saru Smelting & Refining Corp. Private Ltd.—161/1, Harrison Road, Calcutta 7.

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Globe Optical Co.—284A, Bowbazar Street, Calcutta 12.
James Murray & Co. P. Ltd.—5, Old Court House St., Calcutta 1.
Lawrence & Mayo India P. Ltd.—11, Govt. Place East, Calcutta 1.
Premier Optical Co.—287, Bowbazar Street, Calcutta 12.
President Optical Co.—71, Canning Street, Calcutta 1.
Royal Optical Industries.—72, BRBB Road, Calcutta 1.
Stephens & Co. P. Ltd.—23, Chowringhee, Calcutta 13.
Sun Optical Co.—24/1, Cornwallis Street, Calcutta 6.

PAINTS, COLOURS, ENAMELS & VARNISHES ETC.

Aditya Paint Colour & Varnish Co.—110, Narkeldanga Main Road, Calcutta 11.

Associated Pigments Ltd.—14, Netaji Subhas Road, Calcutta 1.

Bengal Paint Supply Co.—16, Bonfield Lane, Calcutta 1.

British Paints (India) Ltd.—32, Chowringhee Road, Calcutta 16.

Century Paint & Varnish Works.—8/3, Canal Street, Calcutta 14.

Chandi Charan Nayak Pvt. Ltd.—124/1, Bowbazar Street, Calcutta 12.

Eagle Paint & Pigment (Industries), Pvt. Ltd.—135, BRBB Road, Calcutta 1.

Empire Chemical Co.—5, Kustia Road, Calcutta 39.

Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta 1.

Hindustan Paint, Colour and Varnish Co.—Strand Warehouse, Calcutta 1.

Hindustan Paint Supply Co.—190, Lower Circular Road, Calcutta 17.

India Paint, Colour & Varnish Co. Ltd.—14, Netaji Subhas Road, Calcutta 1.

International Chemical Industries.—52, Central Avenue Road, Calcutta 32.

Jenson & Nicholson (India) Ltd.—225, L. C. Road, Calcutta 20.

Leather Chemical & Industries Ltd.—9, Muraripukur Road, Calcutta 4.

London Varnish & Enamel Co. Ltd.—112A, Trivoli Court, Calcutta 16.

M. Mumtaz & Co.—11, Swinhoe Lane, Dhakuria P.O., 24 Parganas Dist.

Murarka Paint & Varnish Works Pvt. Ltd.—4E, Dalhousie Square, Calcutta 1.

Narayan Chowdhury Bros. P. Ltd.—4, Jahura Bazar Lane, Calcutta 42.

Nilsin Co.—37, Armenian Street, Calcutta 1.

Olpherts Ltd.—Moti Sil Street, Calcutta 13.

Pigments & Chemical Industries Pvt. Ltd.—32, Armenian Street, Calcutta.

Protective Lacquer Industries.—46, Jamunlal Bazaz Street, Calcutta 7.

Ruby Paint & Varnish Works Pvt. Ltd.—96, Mahatma Gandhi Road, Calcutta 7.

Salkia Paint Mfg. Co.—40/1, Strand Road, Calcutta 1.

Shelimar Paint Ltd.—Botanic Garden, Howrah-3, Calcutta.

Solar Paint & Varnish Mfg. Co.—Barrackpore Trunk Road, Belgharia P.O., 24 Parganas Dist.

Tropic Paint Works Pvt. Ltd.—7, Chittaranjan Ave., Calcutta 13.

Waxpol Industries Ltd.—16-A, Lake View Road, Calcutta 29.

Xanthic Industries.—28, Strand Road, Calcutta 1.

PAPER MERCHANTS

A. K. Choudhury & Co.—10, Jackson Lane, Calcutta 1.

Ashoka Marketing Ltd.—11, Clive Row, Calcutta.

Asian Trading Corp.—72, Old China Bazar Street, Calcutta 1.

Basu & Co.—118, Amherst Street, Calcutta 9.

Bengal Paper Mill Co. Ltd.—14, N.S. Road, Calcutta 1.

Bholanath Paper House Pvt. Ltd.—Post Box No. 2427, 32-A Brabourne Road, Calcutta.

Birdhi Chand Giridharial & Co.—146-2, Old China Bazar Street, Calcutta 1.

Calcutta Corrugated Paper Co.—26, Prince Anwar Shah Road, Calcutta 33.

Calcutta Paper House.—385, Upper Chitpore Road, Calcutta 7.

Chatterjee & Chakravarti (Paper) Ltd.—63-B, Radhabazar Street, Calcutta 1.

Day Bros. & Co.—270, Chittaranjan Avenue, Calcutta 6.

Dwarkanad Mangalchand.—8, Jackson Lane, Calcutta 1.

East India Paper Co.—24, Brabourne Road, Calcutta 1.

Eastern Paper Syndicate.—133, Canning Street, Calcutta 1.
 Eastern Trading Co.—64-A, Dharmatolla Street, Calcutta 13.
 G. M. Singh & Sons.—133, Canning Street, 4th Floor, Calcutta 1.
 Gopi Nath Paul & Co.—109, Old China Bazar Street, Calcutta 1.
 Hanuman Paper Co.—12, Jackson Lane, Calcutta 1.
 Hind Associated Corpn. Pvt. Ltd.—P. 23-24, Radhabazar Street, Calcutta 1.

Hindustan Paper & Board Co.—21, Synagogue Street, Calcutta 1.
 Imperial Paper House.—26-1-B, Sashi Bhusan Dey Street, Calcutta 12.

International Linkers Pvt. Ltd.—P-22, Swallow Lane, Calcutta 1.
 J. B. Advani & Co. Pvt. Ltd.—27, N. S. Road, Calcutta 1.
 Jiban Krishna Dutta & Bros.—63-D, Beniatola Street, Calcutta 5.
 J. N. Chatterjee & Bros.—28-19, Old China Bazar Street, Calcutta 1.
 J. N. Mukherjee & Bros.—135, BRBB Road, Calcutta 1.

Kajaria Sons Pvt. Ltd.—32, Armenian Street, Calcutta 1.
 K. C. Dang & Co.—2-A, Amratalla Lane, Calcutta 1.
 Kishore Paper House.—309, Bow Bazar Street, Calcutta 1.
 Lohia Trading Co.—133, Canning Street, Calcutta 1.
 Louis Dreyfus & Co. Ltd.—18-A, Brabourne Road, Calcutta.
 Merchants & Traders Pvt. Ltd.—32, Armenian Street, Calcutta 1.
 National Industrial Co.—103-A, S. N. Banerjee Road, Calcutta 4.
 National Paper & Board Ltd.—22, Canning Street, Calcutta 1.
 New Bharati Trading Syndicate.—104, Old China Bazar Street, Calcutta 1.

Norinco Ltd.—14, Netaji Subhas Road, Calcutta 1.
 Panna Lal Seal & Co.—56, Radhabazar Street, Calcutta 1.
 Paper India Ltd.—6 Clive Row, Calcutta 1.
 Paper Palace.—9-A, Jackson Lane, P.O., Calcutta 1.
 Paper & Stationery Co.—P-22, Radha Bazar Street, Calcutta 1.
 Premier Suppliers Pvt. Ltd.—15, India Exchange Place, Calcutta 1.
 Purna Chandra Kundu & Sons Ltd.—11-1, Protap Chatterjee Lane, Calcutta 12.

Queen Stationery Stores Pvt. Ltd.—63-E, Radhabazar Street, Calcutta 1.

Raghunath Dutt & Sons Pvt. Ltd.—32-B, Brabourne Road, Calcutta 1.

Scania India Paper Co. Co. (Cal.) Ltd.—11A, S. R. Das Road, Calcutta 29.

Sen Bros.—70, Mahatma Gandhi Road, Calcutta 7.

Shiv Paper Exchange.—23, B.R.B.B. Road, Calcutta 1.

Sun Distributors Ltd.—14, Netaji Subhas Road, Calcutta 1.

Universal Paper Co.—47, Mahatma Gandhi Road, Calcutta 9.

Wiggins Teape & Alex Pirie (Export) Ltd.—Pollock House, 18-B, Brabourne Road, Calcutta 1.

PAPER MILLS

Ballarpur Paper & Straw Board Mills Ltd.—25, Brabourne Road, Calcutta 1.

Bengal Paper Mill Co., Ltd.—14, Netaji Subhas Road, Calcutta 1.

Eastern Paper Mills Ltd.—2, Dakshindri Road, Calcutta 48.

India Paper Pulp Co., Ltd.—8, Clive Row, Calcutta 1.

J. K. Paper Mills.—2, Mangoe Lane, Calcutta.

Orient Paper Mills Ltd.—15, India Exchange Place, Calcutta 1.

Rohtas Industries Ltd.—11, Clive Row, Calcutta 1.

Sirpur Paper Mills Ltd.—P11, Darga Road, Calcutta 1.

Star Paper Mills Ltd.—27, Brabourne Road, Calcutta.

Union Paper & Board Mills Ltd.—18, Netaji Subhas Road, Calcutta 1.

PAPER, PAPER BOARDS & PAPER PRODUCTS

Bengal Miscellany Ltd.—174, Maniktolla Main Road, Calcutta 11.

Bengal Paper Tube & Box Mfg. Co.—18, Park Street, Calcutta 16.

Eastern Paper Mills Ltd.—2, Dakshindri Road, Calcutta 48.

Himalaya Paper & Board Mills Pvt. Ltd.—20, Seven Tanks Lane, Calcutta 30.

Indian Card Board Industries Ltd.—18, N.S. Road, Calcutta 1.

Jindal Trading Co.—26, P. K. Tagore Street, Calcutta 6.

Mahabir Paper & Board Industries.—3, Canal Road, Tollygunge, Calcutta 33.

Paper Products Ltd.—7, Chittaranjan Ave., Calcutta 13.

Pioneer Paper & Pulp Ltd.—1/1, Umakanta Sen Lane, Palkpara, Calcutta 30.

Straw Products Ltd.—18, Rabindra Sarani, Calcutta 1.

PEST CONTROL

PEST CONTROL (INDIA) PRIVATE LTD.

Consulting Entomologists, Termite Control, Disinfestation
 Fumigation Service.

10, Chowringhee Road, Calcutta-13. Phone : 235076

H.O. : Yusuf Building, Mahatma Gandhi Road, Bombay-1.

(For further details please see Bombay Commercial firm section.)

PHARMACEUTICALS

Adcco Ltd.—2, Chowringhee Road, Calcutta 13.

BENGAL CHEMICAL & PHARMACEUTICAL WORKS LTD.—
 6, Ganesh Chunder Avenue, Calcutta 13; Pharmaceuticals,
 Heavy & Fine Chemicals, High Class Toilet Products, Coal
 Tar Distillation Products, Fire Extinguishers, Printing inks,
 Driers, etc., Branch Offices : Bombay & Kanpur.

British Drug Houses (India) Private Ltd.—58/D, Chowringhee
 Road, Calcutta 16.

Dey's Medical Stores (Mfg.) Pvt. Ltd.—6/2B, Lindsay Street,
 Calcutta 16.

PHOTOGRAPHIC MATERIAL DEALERS

Adair Dutt & Co. (I) Pvt. Ltd.—5, D. Square East, Calcutta 1.

Bengal Photo Co. P. Ltd.—15/3, Chowringhee Road, Calcutta 13.

Bombay Photo Stores P. Ltd.—33-34, Park Mansions, Park St.,
 Calcutta 16.

Bourne & Shepherd.—141, Surendra Nath Banerji Road, Calcutta 13.

Calcutta Paint & Photo Stores.—173/1, Dharamtolla St., Calcutta 13.

Chimanlal Desai & Co.—54, Bentinck Street, Calcutta 1.

Chokshi Brothers P. Ltd.—66, Ganesh Chandra Avenue, Calcutta 13.

Continental Photo Service.—1, Sadananda Road, Calcutta 26.

Daw Sen & Co. P. Ltd.—26, Dr. Suresh Sarkar Road, Calcutta 14.

D. Ratan & Co.—22/1, Cornwallis Street, Calcutta 6.

Eastern Camera Stores.—9-A, D. Square East, Calcutta 1.

Grand Camera Stores & Studio.—9-B, Chowringhee Place, Calcutta 13.

J. C. Ghosh & Sons.—19-B, Bhupen Bose Avenue, Calcutta 4.

Kodak Ltd.—17, Park Street, Calcutta 16.

Nan & Co. Ltd.—9-A, Dalhousie Sq. East, Calcutta 1.

New Oriental Photographic Stores.—139-A, S. N. Banerji Road,
 Calcutta 13.

Novelty Photo Co.—169, Vivekananda Road, Calcutta 6.

Photo Cine Stores.—3-B, Chowringhee Road, Calcutta 13.

Photo Cine Sound Supplies.—21, R. N. Mukherjee Road, Calcutta 1.

Photographic Stores & Agency Co. P. Ltd.—154, Dharamtolla St.,
 Calcutta 13.

Quick Photo Service Co. P. Ltd.—157-B, Dharamtolla St., Calcutta 13.

Rege Cinefilms Ltd.—36, Ganesh Ch. Avenue, Calcutta 13.

Savoy Camera Stores.—4, Chowringhee Road, Calcutta 13.

Vijay & Co.—3, Chowringhee Road, Calcutta 13.

PIPES (CAST IRON & STEEL) AND PIPE FITTINGS

Agarwal Hardware Industries Pvt. Ltd.—167, Chittaranjan Avenue
 Calcutta 7.

American Pipe Co.—135, Brabourne Road, Calcutta 1.

Aminchand Payare Lal.—135, Brabourne Road, Calcutta 1.

Asian Industries.—9, Upper Chitpur Road, Calcutta 7.

Bagri Iron & Steel Co.—40/1, Shibtola Street, Calcutta 7.

Bengal Hardware Mart.—69-A, Netaji Subhas Road, Calcutta 1.

Bengal Rolling Mills Ltd.—67-B, Netaji Subhas Road, Calcutta.

Bharat Steel & Metal Industries.—14/2, Old China Bazar St., Block,
 No. 169, Calcutta 1.

Calcutta Pipe Mfg. Co.—374, Upper Chitpur Road, Calcutta 7.

Castings Corporation India Pvt. Ltd.—45, Madhusudan Pal
 Chowdhury Lane, Howrah 1.

Cyma Engineering Co.—223, Bellillos Road, Howrah.

D. C. De & Sons.—150, Narasingha Dutta Road, Howrah.

Dey Brothers.—71-A, N. Subhas Road, Calcutta 1.

Great Eastern Mechanical Works Ltd.—Ichapore Road, Howrah.

Hindustan Industrial Co.—192, Jamunatal Bazaz Street, Calcutta 7.

Howrah Engineering Concern Pvt. Ltd.—153/154, Madhusudan
 Balchowdhury Lane, Howrah.

Indian Iron & Steel Co. Ltd.—12, Mission Row, Calcutta.

Indian Tube Co. Ltd.—41, Chowringhee Road, Calcutta 16.

Jain Brothers.—29, Strand Road, Calcutta.

Kedar Engineering & Trading Co.—34, Strand Road, Calcutta 1.

Luxmi Engineering Co. Pvt. Ltd.—123, Narasingha Dutt Road,
 Howrah.

Machines Techno (Sales) Pvt. Ltd.—33, Netaji Subhas Road,
 Calcutta 1.

M. Chandra & Co.—12, Lower Chitpur Road, Calcutta 1.

National Pipe Bending Works.—3, Thakurdas Dutt 2nd Lane,
 Howrah 1.

Premier Iron and Steel Works Ltd.—North Bantra Belgachia Road,
 North, Howrah 5

Ramkrishna Engineering Works.—132/A, A. M. Road, Calcutta 25.

Ramprashad Sagarmall.—34/2, Madhusudhan Pal Chowdhury Lane
 Howrah 1.

Satish Chandra Karuri & Sons.—10-6, Brindabon Mullick Lane,
 Howrah 1.

S. Abbas & Co.—12-B, Clive Row, Calcutta 1.

Shree Ambica Iron Works.—83, Chakpara Road, Howrah 1.

Spun Casting & Engg. Co. P. Ltd.—77/5, Banaras Road, Salkia.

Tatanagar Foundry Co. Ltd.—4, Dalhousie Sq. East, Calcutta 1.

PLASTIC PRODUCTS DEALERS

Bharat Trading Co.—71, B.R.B.B. Road, Calcutta 1.

Chika Ltd.—36, Ganesh Ch. Avenue, Calcutta 13.

Eastern Plastics.—71, Canning Street, Calcutta 1.
G. C. Kedia & Co.—13, India Exchange Place, Calcutta 1.
General Trading Company.—71, Canning Street, Calcutta 1.
Kamal Engineering Corpn.—P36, India Exchange Place, Calcutta 1.
Metal Distributors Ltd.—38, Strand Road, Calcutta 1.
Nopchand Punamchand Malu.—10, Jackson Lane, Calcutta.
N. V. Distributors.—71, Canning Street, Calcutta 1.
Plastics & Machineries Distributors.—4, Upper Chitpur Road, Calcutta 7.
Sundersingh Ajitsingh.—B.R.B.B. Road, Calcutta 1.
United India Agencies.—26, Upper Chitpur Road, Calcutta 7.

PLASTIC PRODUCTS MANUFACTURERS

Ajanta Plastics P. Ltd.—2, Kailash Bose Road, Calcutta 6.
Ashok Plastics Pvt. Ltd.—116, BRBB Road, Calcutta 1.
Atlas Industries Co.—1-3, Raja Rajkissen Street, Calcutta 6.
Bajaj Industries Pvt. Ltd.—26/1, Brojodulal St., Calcutta-6.
Bharat Industrial Corporation.—150/C, Ram Dulal Sircar Street, Calcutta 6.
Binani Metal Works Pvt. Ltd.—38, Strand Road, Calcutta 1.
B. K. Plastic Industries, 33, Burtolla Street, Calcutta 7.
Calcutta Plastic Works.—26, Upper Chitpur Road, Calcutta 7.
CAPRIHANS (INDIA) PRIVATE LTD.—8A, Rawdon Street, Calcutta 17. Phone: 440729 & 446359; H.O. Block 'D', Shiv Sagar Estate, Dr. Annie Besant Road, Worli Bombay 18 (WB).
Century Plastics P. Ltd.—31, Biplabi Pulin Das St., Calcutta 9.
Crown Pen Industries.—90, Phears Lane, Calcutta 12.
Eastern Traders (Agencies).—3, Chittaranjan Avenue, Calcutta 13.
Extrusions.—243, Chittaranjan Avenue, Calcutta 6.
Hind Plastic Works Ltd.—16, Pageyaputti Street, Calcutta 1.
I. C. I. (India) Pvt. Ltd.—34, Chowringhee, Calcutta.
India Moulding Co.—C-2, Bharat Bhavan, C. R. Avenue, Calcutta 13.
Industrial Plastic (India).—5, Russell Street, Calcutta 16.
Kumar Plastic Works.—48-A, Muktaram Babu Street, Calcutta 7.
K. N. Gupta & Co.—87, Khengraputti Street, Calcutta 7.
Ladia Plastic Works.—14-6, Sovaram Basak Street, Calcutta 7.
Madan & Co.—65-A, Nimtolla Ghat Street, Calcutta 6.
Modern Plastic Works.—Kishore Ghose Market, Calcutta 26.
National Moulding Co. Ltd.—26, Upper Chitpur Road, Calcutta 7.
Oriental Traders.—12B, Lower Chitpur Road, Calcutta 1.
Peerless Plastics Industries Pvt. Ltd.—4, Upper Chitpur Road, Calcutta 7.
Plastic Corporation.—114, Princep Street, Calcutta 13.
Plastic Moulding & Allied Industries.—135, Park Street, Calcutta 17.
Plastic Powders Pvt. Ltd.—1, Ambica Mukherjee Road, Belgharal, 24 Parganas.
Plasto-Iron (India) Ltd.—193, Jessore Road, Dum Dum, Calcutta 28.
Ratan Plastics Pvt. Ltd.—43/1, Strand Road, Calcutta 7.
Saigal Commercial Company.—1, Sun-Yet-Sen Street, Calcutta 1.
Suresh Stores.—71, BRBB Road, Calcutta 1.
Synthetic Moulders Ltd.—5, Synagogue St., Calcutta 1.
Teko Pen Industries.—90, Phears Lane, Calcutta 12.
United Industries.—6, Canal Road, Tollygunge, Calcutta 33.
Universal Moulders.—4, Canal Road, Calcutta 33.
West Bengal Plastics (Pvt.) Ltd.—4, Duffers Lillooah, Howrah.
Western Plastic Company.—9, Gurusaday Road, Ballygunge, Calcutta 19.

PLYWOOD

Albion Plywoods Ltd.—11, Clive Row, Calcutta 1.
Assam Bengal Veneer Industries Pvt. Ltd.—9, Clive Row, Calcutta 1.
Belaghata Timber Works Ltd.—8, Chawalpatty Road, Calcutta 10.
Assam Plywood Agencies, 6, Old Post Office St., Calcutta 1.
Belaghata Timber Works Pvt. Ltd.—28B, Chawalpatty Road, Calcutta 10.
Bose Wood Works Pvt. Ltd.—9, Clive Row, Calcutta.
Crossley & Towers Ltd.—7A Lower Circular Road, Calcutta 17.
Ganges Plywood Mfg. Co. Pvt. Ltd.—35, Dori Mission Road, Calcutta 23.
Great Indian Plywood Mfg. Co.—76, Jessore Road, Calcutta 28.
Hindustan Timber Industries.—41, Chawalpatty Road, Calcutta.
India Plywood Co.—33, S. K. Deb Road, Calcutta 48.
Kasipur Plywood Co.—26, C. R. Avenue, Calcutta 12.
Minerva Plywood Industries.—14/1, Chawalpatty Road, Calcutta 10.
National Timber Industries.—63, Belgachia Road, Calcutta 37.
North Bihar Saw Mills.—P.C. Road-Chetia, Calcutta 27.
Paharpur Timbers Pvt. Ltd.—18, Judges Court Road, Calcutta 27.
Rohas Industries Ltd.—11, Clive Row, Calcutta 1.
Wood Craft Products Ltd.—P46A, CIT, Sch. XLV, Radhabazar Lane, Calcutta 1.

PRINTING INK MFRS.

BENGAL CHEMICAL & PHARMACEUTICAL WORKS LTD.—6, Ganesh Chunder Avenue, Calcutta 13; Pharmaceuticals, Heavy & Fine Chemicals, High Class Toilet Products, Coal Tar Distillation Products, Fire Extinguishers, Printing inks, Driers, etc., Branch Offices—Bombay & Kanpur.

PRINTING PRESSES

Acme Printing & Process Works.—115C, Amherst Street, Calcutta 89.
Adi Bengal Press.—26, Bediadanga 2nd Lane, Calcutta-39.
All India Printing & Cardboard Box Factory.—58/1, Nimtolla Ghat Street, Calcutta 6.
Art Printing House.—43, European Asylum Lane, Calcutta 16.
Aryan Press.—309, Bowbazar Street, Calcutta 12.
Auto Print & Pub. House.—49, Baldeopara Road, Calcutta 6.
B. M. S. Printing Works.—3, Amratola Street, Calcutta 1.
Baptist Mission Press.—41A, Lower Circular Road, Calcutta 16.
Bela Printing Works.—22, Sukeas Lane, Calcutta 1.
Bengal Cardboard Industries & Printers P. Ltd.—72, Tiljala Road, Calcutta 46.
Bengal Phototype Co. (Pvt.) Ltd.—46/1, Amherst Street, Calcutta 9.
Bharati Printing & Publishing Co. Ltd.—44, Gopal Lal Tagore Road, Calcutta 36.
Blockman (Process).—77/1, Harrison Road, Calcutta 9.
Brahmo Mission Press.—211/1, Cornwallis Street, Calcutta 6.
Calcutta Art Studio.—185/1, Bowbazar Street, Calcutta 12.
Calcutta Art Printers Ltd.—9, Chowringhee, Calcutta 13.
Calcutta Press Pvt. Ltd.—1, Wellington Square, Calcutta 13.
Campbell Printing Works.—8/1, Lalbazar Street, Calcutta 1.
Cardboard Material & Printing Co. (Pvt.) Ltd.—7, Convent Road, Calcutta 14.
Caxton & Co.—18, A. M. Road, Calcutta 20.
Clive Press Printers.—14/2, Old Chira Bazar Street, Calcutta 1.
Divine Printing Works.—142/2, Radha Bazar Street, Calcutta.
Doshi Press Pvt. Ltd.—17, Armenian Street, Calcutta.
Eastern Printing House.—9, Dharamtola Street, Calcutta 13.
Eastern Type Foundry & Oriental Printing Works Pvt. Ltd.—18, Brindaban Basak Street, Calcutta 5.
Eton Press Pvt. Ltd.—41, Netaji Subhas Road, Calcutta 1.
Express Printers Pvt. Ltd.—20A, Gour Laha Street, Calcutta 6.
Free India Press, 4, Suri Lane, Calcutta 14.
General Printers & Publishers Ltd.—119, Dharamtola Street, Calcutta 13.
Glasgow Printing Co. Private Ltd.—13, Chatterjee Para Lane, Howrah.
Gordon & Co.—106, Narkeldanga Main Road, Calcutta 11.
Graphic Machinery & Appliances Pvt. Ltd.—Bharat Bhavan, Calcutta 13.
Gupta Press.—37/7, Beniatola Lane, Calcutta 9.
Hindustan Art Engraving Co. Pvt. Ltd.—24, Dr. Kartick Bose St., Calcutta 9.
Hindustan Printing Works.—58/1/4/A, Raja Dinendra Street, Calcutta 6.
Hooghly Printing Co. Ltd.—8, Clive Row, Calcutta 1.
Indian Press Pvt. Ltd.—93A, Dharamtola Street, Calcutta 13.
International Press.—46, Bowbazar Street, Calcutta 12.
Janabani Printers & Pub. Pvt. Ltd.—178, Upper Chitpur Road, Calcutta 3.
Kalika Press Pvt. Ltd.—25, D. L. Roy Street, Calcutta 6.
Kalika Type Foundry Pvt. Ltd.—31, Ward Institution Street, Calcutta 6.
Kobinoor Art Press.—3, Abdul Ali Row, Calcutta 16.
Limton Art Press.—148, Lower Chitpur Road, Calcutta 1.
Loyal Art Press Ltd.—164, Dharamtola Street, Calcutta 13.
Madona Press.—14, Bowbazar Street, Calcutta 12.
Mohan Press.—2, Corris Church Lane, Calcutta 9.
Monotype Corpn. Ltd.—12, Govt. Place East, Calcutta 1.
Nabajiban Press.—66, Grey Street, Calcutta 6.
Nabasakti Press.—123, Lower Circular Road, Calcutta 14.
Nalanda Press.—159 & 160, Bidhan Sarani, Calcutta 6.
National Press.—14/2, Old China Bazar Street, Calcutta 1.
National Press.—31, Keshab Sen Street, Calcutta 9.
National Press.—76, Bowbazar Street, Calcutta 12.
National Printing Works.—58/1H, Raja Dinendra Street, Calcutta 6.
National Printing Works Pvt. Ltd.—1, Gangadhar Babu Lane, Calcutta 12.
National Printing Works.—33D, Madan Mitra Lane, Calcutta 6.
New India Printing & Publishing Co. Pvt. Ltd.—41A, Baldeopara Road, Calcutta 6.
Popular Press.—92/A, Bipin Behari Ganguly Street, Calcutta 12.
Printers Congress Pvt. Ltd.—3, British Indian Street, Calcutta 1.
Radiant Process.—6, A.S.N. Banerjee Road, Calcutta 13.
Reliable Printers.—170, Mahatma Gandhi Road, Calcutta 7.
Robin Press.—36, Strand Road, Calcutta 1.
Sadhana Press Pvt. Ltd.—76, Bowbazar Street, Calcutta 12.
Sen Press Ltd.—6, Shibnarain Das Lane, Calcutta 6.
Shree Saraswati Press Ltd.—32, Acharya Profulla Chandra Road, Calcutta 9.
Standard Photo Engraving Co.—1, Ramanath Majumder Street, Calcutta 9.
Star Printing Works.—30, Shibnarain Das Lane, Calcutta 6.
Times of India.—13/1 & 13/2, Govt. Place East, Calcutta 1.
United Commercial Co.—30, Chandi Bari Street, Calcutta 6.

United Printing Works.—P19, Kambullitolla, Calcutta 5.
 United Trading Agency India Pvt. Ltd.—58, Radhabazar Street, Calcutta 1.
 Venus Printing Works.—52/7, Bowbazar Street, Calcutta 12.

PUMPS & PUMPING SETS

Asea United Traders & Industries P. Ltd.—10-B, Kapaltola Lane, Calcutta 12.
 Bengal Iron Works Pvt. Ltd.—65, Ganesh Ch. Avenue, Calcutta 13.
 Bombay Engineering Works.—238, Belilios Road, Howrah 1.
 British Standard Pumps & Co.—35P/14, N.S. Road, Calcutta 1.
 Continental Plant Machinery Co. Pvt. Ltd.—16, Hare Street, Calcutta 1.
 East India Engg. & Agency Co.—63, Benaras Road, Howrah, Calcutta 1.
 Ebrahimji Hassanbhoj & Sons.—30, Strand Road, Calcutta 1.
 F. Husain & Brothers.—28, Strand Road, Calcutta 1.
 Great Eastern Foundry, Works.—76/12, Banaras Road, Howrah, Calcutta 1.
 Hindusthan Electric & Engg. Co.—Beacon Street, Calcutta 6.
 Johnston Pumps India Ltd.—2, Fairlie Place, Calcutta 1.
 Kundlia Industrial Corporation.—23, Canning Street, Calcutta 1.
 Laxmi Engineering Co. Pvt. Ltd.—123, Narsingha Dutt Road, Howrah.
 Marshall, Sons & Co. Mfg. Ltd.—33/1, Netaji Subhas Road, Calcutta.
 Maya Engineering Works P. Ltd.—200A, S. P. Mukherji Road, Calcutta 26.
 Natwarlall P. Ltd.—24, Netaji Subhas Road, Calcutta 1.
 Power & Machinery India Ltd.—3, Mango Lane, Calcutta 1.
 Republic Traders Corporation.—26, R.N. Mukherjee Road, Calcutta 1.
 Ultra Engineering Co.—172-8, Madhusudan Pal Chowdhury Lane, Howrah.
 United Provinces Commercial Corp.—4, Princep St., Calcutta 13.
 Varat Pump & Machinery Pvt. Ltd.—20, Netaji Subhas Road, Calcutta 1.

WATER SUPPLY SPECIALISTS PRIVATE LTD.—P.O. Box No. 424, Gujarat Mansion, Mission Row Extension, Calcutta 1. Phone: 234144; Grams: "WATERFLOW"; Head Office: 8, Hamam Street, Bombay 1; Branches: Madras, New Delhi and Secunderabad; Sole Agents for Myers Pumps; Manufacturers of "WASP" Pumping Sets etc.
 Western India Industries P. Ltd.—10, Clive Row, Calcutta.
 William Jacks & Co. Ltd.—16, Netaji Subhas Road, Calcutta 1.

RADIO MANUFACTURERS & DEALERS

Allied Radio Industries.—153A, Vivekananda Road, Calcutta.
 Associated Electronics.—10, Princep Street, Calcutta 13.
 Bhatia Radi Corporation.—3, Saklat Place, Calcutta 13.
 Britannia Talking Machine Co. (Cal).—184, Dharamtolla Street, Calcutta 13.
 Calcutta Radio Service Pvt. Ltd.—34, Ganesh Chandra Avenue, Calcutta 13.
 Central Radio Service Pvt. Ltd.—25/A, Chittaranjan Avenue, Calcutta 13.
 Debsons Pvt. Ltd.—2, Madan Street, Calcutta 13.
 Eastern Electric & Trading Co.—Hall & Anderson Bldg., 31, Chowringhee Road, Calcutta 16.
 Electronic Radio & Sound Agencies.—18, Chandni Chowk Street, Calcutta 13.
 Flashlight (I) Ltd.—135, Princep Street, Calcutta 13.
 General Radio & Appliance Ltd.—3, Madan Street, Calcutta 13.
 General Radio Co.—6, Madan Street, Calcutta 13.
 Hindustan General Electric Corp. Ltd.—Thapar House, 25, Brabourne Road, Calcutta 1.
 Hindustan Musical Products Ltd.—6/1, Akrur Dutt Lane, Calcutta 12.
 India Radio Mfg. Co.—18, Chandni Chowk Street, Calcutta 13.
 International Radio Emporium Pvt. Ltd.—3, Madan Street, Calcutta 13.
 Lalwani Radio Corp.—6/3, Madan Street, Calcutta 13.
 Megaphone Co.—Harrison Road, Calcutta 7.
 Modi Radio Co.—129/7, Harrison Road, Calcutta 7.
 Nan & Co.—9A, Dalhousie Square East, Calcutta.
 Philips India Ltd.—7, Justice Chandra Madhab Road, Calcutta.
 Radio & Accessories (India) Pvt. Ltd.—3, Madan Street, Calcutta 13.
 Radio Distributing Co.—1, C.R. Avenue, Calcutta 1.
 Radio Manufacturers of India.—70, Ganesh Chandra Avenue, Calcutta 13.
 Radios (India) Ltd.—Lindsay Street, Calcutta 16.
 Senola Musical Products Co.—11, Esplanade East, Calcutta 1.
 Singh Radio & Sound Engineering.—9, Chowringhee Road, Calcutta 13.
 Southern Engineering Co., Ltd.—54, Bentinck St., Calcutta 1.
 Standard Radio & Winding House Pvt. Ltd.—1, Chandni Chowk Street, Calcutta 13.
 Thudurson Electronics and National Instruments P. Ltd.—12, Suren Sarkar Road, Calcutta 10.
 United Agency Co.—18A, Syamaprasad Mukherjee Road, Calcutta.
 Utility Radio Co.—82/3, B, Bidhan Sarani, Calcutta 16.

RUBBER GOODS MANUFACTURERS & DEALERS

American Rubber Mfg. Co.—40, Strand Road, Calcutta 1.
 Asian Industries.—27, Tollygunge Circular Road, Calcutta 53.
 Asiatic Rubber Works Ltd.—54-10, Chingrihatia Road, Calcutta 15.
 Associated Rubber & Plastic Works.—1, M. M. Ghosh Road, Calcutta.
 Bengal Waterproof Works (1940) Ltd.—41, Shakespeare Sarani, Calcutta 17.
 Bharat Rubber Industries—17, Paymental Garden Lane, Calcutta.
 Calcutta Rubber Mfg. Co.—92, Narkeldanga Main Road, Calcutta 11.
 Dunlop India Ltd.—Dunlop House, 57-B, Free School St., Calcutta 16.
 East India Rubber Works Pvt. Ltd.—161, Chittaranjan Avenue, Calcutta 1.
 Firestone Tyre & Rubber Co. of India Pvt. Ltd.—18, Carnac Street, Calcutta 16.
 George Spencer Moulton & Co. (India) Ltd.—118/2, Esplanade Mansion, Calcutta 1.
 Goodyear India Ltd.—225, C. Acharya Rd., Calcutta 20.
 Hind Rubber Works.—17, Bibi Banu Lane, Calcutta 15.
 India Tyre and Rubber Co. P. Ltd.—1, Waterloo St., Calcutta 1.
 International Rubber Mfg. Co.—51, Radhanath Chowdhury Road, Calcutta 15.
 Kohinoor Rubber Works, 35/1A, Canal East Road, Calcutta 11.
 Modern Rubber Mfrs. Pvt. Ltd.—12/1/B, Lindsay Street, Calcutta 16.
 National Tyre & Rubber Co. India Ltd., 6, Rowland Road, Calcutta 20.
 Oriental Rubber Works.—171-A, Mahatma Gandhi Road, Calcutta 7.
 Rubber Equipment & Engineering Co. P. Ltd.—4-C, Garstin Place, Calcutta 1.
 Rubber Products & Moulding Co.—9-A, Bechanlal Road, Calcutta 46.
 S. G. R. Industries Private Ltd.—10, The Mall, Dum Dum, Calcutta 28.
 United Tyres.—59-B, Chowringhee Road, Calcutta 20.
 Wren & Co., D.—25, Swallow Lane, Calcutta 1.

SAFETYWEARS FOR INDUSTRIAL WORKERS

VISWA BHARATI, TRADING CO.—G.P.O. Box No. 2628, Calcutta-1; Phone: 336680; Head Office: 45, Mint Road, Post Box No. 1052, Bombay-1; Phone: 266371 (all Depts.), Grams: "VIBHACO" Manufacturers of Industrial safety equipments such as Goggles, Gloves, Dust masks, Gas Protection Respirators, Helmets, Safety Belts, Aprons etc.

SANITARY ENGINEERS & SANITARY APPLIANCES MANUFACTURERS AND DEALERS

Advance Engineering Corporation.—12B, Clive Row, Calcutta.
 Asoka Trading Corporation.—46, Dharamtolla St., Calcutta 13.
 Britannia Building & Iron Co. Ltd., Stephen House, 4, Dalhousie Square East, Calcutta.
 Calcutta Constructors P. Ltd.—34, Strand Road, Calcutta 1.
 Emporia of Commercial Stores.—22, N. Subhas Road, Calcutta.
 National Planning & Construction Ltd.—16, Ganesh Ch Avenue, Calcutta 13.
 Robson & Co. P. Ltd.—P-14, Mission Row Extension, Calcutta 1.
 Sanitary & Plumbing Stores Pvt. Ltd.—146, Shyama Prosad Mookerjee Road, Calcutta 26.
 S.D.M. Syndicate.—27, Madan Boral Lane, Calcutta 12.

SCIENTIFIC & SURGICAL APPARATUS & INSTRUMENTS MANUFACTURERS & DEALERS

Adair Dutt & Co. (India) Pvt. Ltd.—5, Dalhousie Sq. East, Calcutta 1.
 Alcock W.J. & Co. Pvt. Ltd.—7, Hastings St., Calcutta 1.
 Anglo-Swiss Watch Co.—6, Dalhousie Sq. East, Calcutta.
 Associated Elec. Industries (India) Ltd.—13, R. N. Mukherjee Road, Calcutta 1.
 Bajaj Electricals Ltd.—10, Ganesh Ch. Avenue, Calcutta 13.
 Basmall & Co. (India) Pvt. Ltd.—Basmall House, Bangur Avenue, Calcutta 28.
 Bengal Chemical & Pharmaceutical Works Ltd.—6, Ganesh Chandra Avenue, Calcutta 13.
 Bengal Scientific & Technical Works P. Ltd.—20-3, Ashwini Dutt Road, Calcutta 29.
 Bombay Surgico Medical Agency Pvt. Ltd.—113, Chittaranjan Avenue, Calcutta 12.
 Chemical & Surgical Works Ltd.—186, BBBG St., Calcutta 12.
 Deformity Appliances and Hospital Stores.—112, Amherst St., Calcutta 9.
 Eastern Scientific Co.—3-A, Beliaghata Main Road, Calcutta 10.
 Electro Science Corp. (P) Ltd.—7, Waterloo Street, Calcutta 1.
 Geologists' Syndicate Ltd.—BRBB Road, Calcutta 1.
 Gharpure & Co.—P/36, Royal Exchange Place Extension, Calcutta.
 Hospital Supply Co.—111, Chittaranjan Avenue, Calcutta 12.
 Indian Chemicals & Scientific Instrument Works, 208, Bepin Behari Ganguli Street, Calcutta 12.
 Indian Oxygen Ltd.—48-1, Diamond Harbour Road, Calcutta 27.
 Industrial Instrument Co.—P-34, Mission Road, Calcutta 13.

James Murray & Co. Pvt. Ltd.—5, Old Court House Street, Calcutta 1.
Jenny Christensen (Service Apartments) P. Ltd.—7, Pretoria St., Calcutta 16.
Kay Orr Brothers.—P-36, Royal Exchange Place Extn., Calcutta 1.
Mahindra Engg. Co. Pvt. Ltd.—31, Chowringhee, Calcutta 16.
Mansfield Oil Gas Co. Ltd.—16, Radhanath Choudhury Rd., Calcutta 15.
New Indian Scientific Apparatus Co.—20, Radha Kanto Jew St., Calcutta 4.
Oster Chemical & Pharmaceutical Works Pvt. Ltd.—78-B, Manicktolla Street, Calcutta 6.
Pharma Ortho Surgicals.—33, College St., Calcutta 12.
Philips India Pvt. Ltd.—7, Justice Chandra Madhab Road, Calcutta 20.
Precision Instrument Corpn. (India) Pvt. Ltd.—46, Dharamtolla Street, Calcutta 13.
Rimeo.—15-B, Nalin Sircar St., Calcutta 4.
Scientific & Surgical Equipment Pvt. Ltd.—112, Chittaranjan Avenue, Calcutta 7.
Scientific Glass Apparatus Mfg. Co.—11-2, Hari Nath Dey Road, Calcutta 9.
Scientific Repairs & Trading Co. Pvt. Ltd.—27, Beniapurkur Road, Calcutta 14.
Technological Equipment Co. P. Ltd.—E-8, Industrial Estate, Calcutta 35.
Toshniwal Brothers P. Ltd.—85A, Sarat Bose Road, Calcutta 26.
Uday Scientific Industries P. Ltd.—6/A, Bhabanath Sen Street, Calcutta 4.

SEWING MACHINES

Bose & Co.—149/1, Dharamtalla Street, Calcutta 13.
Don Watson & Co. Ltd.—19, British Indian St., Calcutta 1.
Electrical Distributors.—3, Mangoe Lane, Calcutta 1.
Jay Engineering Works Ltd.—183-A, Prince Anwarshah Road, Calcutta 31.
Singer Sewing Machine Co.—29, Waterloo St., Calcutta 1.
Usha Sewing Machine Works.—Prince Anwarshah Road, Calcutta 31.

SOAP & TOILET MANUFACTURERS

Asiatic Soap Co.—8, Dalhousie Sqr. East, Calcutta 1.
Banga Luxmi Soap Works Private Ltd., 7, Chowringhee Road, Calcutta 13.
Bengal Chemical & Pharmaceutical Works Ltd.—6, Ganesh Chandra Avenue, Calcutta 13.
Bharat Rabi Soap Works.—70-2-C, Gouribari Lane, Calcutta 4.
Bharat Starch & Chemicals Ltd.—25, Brabourne Road, Calcutta 1.
Calcutta Chemical Co. Ltd.—35, Pandita Road, Calcutta 29.
Calcutta Soap Works.—70, N. S. Road, Calcutta 1.
Dey & Co. Ltd.—56, Netaji Subhas Road, Calcutta 1.
Golden Soap Factory Pvt. Ltd.—171-A, M. G. Road, Calcutta 7.
Himani Pvt. Ltd.—3, Khelat Babu Lane, Calcutta 2.
Hindustan Lever Ltd.—Ilaco House, 1 & 3, Brabourne Road, Calcutta 1.
Howrah Soap Co., Ltd.—18, Netaji Subhas Road, Calcutta 1.
Ithothas Trading Co.—23, Ram Ratan Bose Lane, Calcutta-4.
Jonn Paterson & Co. (India) Ltd.—96, Garden Reach Road, Calcutta 23.
Kusum Products Ltd.—Bombay Mutual Bldgs., 9, Brabourne Road, Calcutta 1.
Model Soap Co.—Mehta Bldg., 55, Canning Street, Calcutta 1.
New Bombay Soap Factory.—245, Manicktolla Main Road, Calcutta 11.
Nawab Soap Co.—297/1, Upper Circular Road, Calcutta 9.
Swaika Oil Mills.—6, Station Road, Howrah.

SPORTING AND ATHLETIC GOODS MFRS. & DEALERS

Diana Agencies.—18-A, Chowringhee, Calcutta 13.
Ghosh & Co. (Sports).—9/B, Ramanatha Majumdar Street, Calcutta 9.
Indian Rubber Manufacturers Ltd.—11 & 12, Esplanade Mansions, Calcutta 1.
Pioneer Sports (I) Ltd.—25, Chowringhee Road, Calcutta 13.
Sharma Sports Co.—11A/1, S. N. Banerjee Road, Calcutta 13.
Symond Distributors Private Ltd.—18, Netaji Subhas Road, Calcutta 1.
Uberoi Ltd.—22/1, Chowringhee Road, Calcutta 13.
United Trading Co.—2, Clock Tower, New Market, Calcutta 13.

STAINLESS STEEL

Amalgamated Universal Agencies (Cal.)—71, Canning Street, Calcutta 1.
Asok Metal Industries Ltd.—157, Netaji Subhas Road, Calcutta 1.
Bathija Corporation.—23-A, Netaji Subhas Road, Calcutta 1.
Chandra Industries Private Ltd.—59, Cotton Street, Calcutta-7.
H. C. Giddings Pvt. Ltd.—3, C. R. Avenue, Calcutta 13.
Mepco & Co.—124, M. Gandhi Road, Calcutta 7.
Pelican Engineers.—161, Upper Chitpore Road, Calcutta 5.
Standard Steels (I) P. Ltd.—P-31, Mission Row Extension, Calcutta 13.

STATIONERY & OFFICE EQUIPMENT MFRS. & SUPPLIERS

Asiatic Typewriter Co.—6, Hastings Street, Calcutta 1.
Bengal Stationery Concern.—14/2, Old China Bazar Street, Calcutta.
Bharat Carbon & Ribbon Mfg. Co. Ltd.—19, British Indian Street, Calcutta 1.
Bharat Sales Ltd.—19, British India Street, Calcutta 1.
Bradma of India Ltd.—20/B, Park Street, Calcutta 16.
Continental Commercial Co. P. Ltd.—2/1, Old Court House East, Calcutta.
Cosmo Equipment Co.—41/19, Russa Road, Calcutta 33.
Eastern Industries Co.—9/4, Patuatola Lane, Calcutta 9.
G. Atherion & Co. P. Ltd.—21, B. N. Mukherjee Road, Calcutta 1.
General Equipment Merchants Ltd.—9, Mission Row, Calcutta 1.
International Computers & Tabulators (India) Pvt. Ltd.—17, C. R. Clive Row, Calcutta 13.
Jyantilal & Co.—55/131, Canning Street, Calcutta 1.
J. K. Business Machines Ltd.—2, Mangoe Lane, Calcutta 1.
Kilburn & Co. Ltd.—2, Fairlie Place, Calcutta 1.
Kores (India) Ltd.—1 & 3, Brabourne Road, Calcutta 1.
Latham Abercrombie & Co., Ltd.—30, Ganesh Chandra Avenue, Calcutta 13.
National Cash Register Co.—4D, Dalhousie Square, East, Calcutta 1.
P. N. Ganeson & Sons.—P-35, India Exchange Place, Calcutta.
Pioneer Typewriter Co.—190, Harish Mukherjee Road, Calcutta 1.
Queen Stationery Stores P. Ltd.—63-E, Radha Bazar Street, Calcutta 1.
Remington Rand of (India) Ltd.—3, Council House Street, Calcutta 1.
Roneo Vickers India Ltd.—13, Mission Row, Calcutta 1.
Standard Trading Co.—43, Ezra Street, Calcutta 1.
Sulekha Works Ltd.—Sulekha Park, Calcutta 32.
Super Toilet & Chemical Co. P. Ltd.—80, Cornwallis Street, Calcutta 6.
W. Newman & Co., Ltd.—3, Old Court House Street, Calcutta 1.

STEEL FURNITURE & FITTINGS

Acme Manufacturing Co.—8/1, Esplanade East, Calcutta 1.
Associated Steel Products Corpn. Pvt. Ltd.—41, Chowringhee Road, Calcutta 1.
Bengal Iron & Engg. Works.—23-A, N. S. Road, Calcutta 1.
Bengal Iron & Steel Works.—8, Canning Street, Calcutta 1.
Bharat Sheet Metal Industries Ltd.—22, Beerpara Lane, Dum Dum, Calcutta 30.
Blackwood India Ltd.—Mango Lane, Calcutta 1.
Commercial Syndicate.—22, B.R.B.B. Road, Calcutta 1.
Cromelite (I) Pvt. Ltd.—P-35, India Exchange Place, Calcutta 1.
French Engineering Works.—150, Rash Behari Avenue, Calcutta 29.
Globe Agencies.—137, B.R.B.B. Road, Calcutta 1.
Godrej & Boyce Mfg. Co. P. Ltd.—23A, N. S. Road, Calcutta 1.
Goodman & Co. I. Pvt. Ltd.—38, Netaji Subhas Road, Calcutta.
Imperial Hardware Co.—6, Gariahat Road (South), Calcutta 31.
India Steel Furniture Mfg. Co.—95, M. Gandhi Road, Calcutta 7.
Indian Stores Supplying Co.—137, B.R.B.B. Road, Calcutta 1.
Jaiswal Industrial & Cutlery Mfg. Co. (India) Pvt. Ltd.—101-BT Road, Calcutta 50.
Metropolitan Structural Works Ltd.—156, R. B. Avenue, Calcutta 29.
Orient Safe & Cabinet Mfg. Co. P. Ltd.—133, Canning Street, Calcutta 1.
Raja Industrial Corpn., Pvt. Ltd.—No. 2, Madhab Ghose Road, Salkia, Howrah.
Shankar Engineering Works.—132/9, Narsing Dutta Road, Howrah.
Steelwyn Corporation.—286, BBG Street, Calcutta 12.
Sudsons Pvt. Ltd.—3, Esplanade East, Calcutta 1.
Victory Engineering Works.—40, Tangra Road, Calcutta 15.

TANNERIES AND LEATHER GOODS MANUFACTURERS

Basak Sett & Co.—9, Chidam Modi Lane, Calcutta 6.
Brand S. B. & Co.—80, Pathuriaghata Street, Calcutta 6.
Chingsue Tannery (P) Ltd.—47, South Tangra, Calcutta 1.
Cuthbertson & Harper (India) Ltd.—10, Govt. Place East, Calcutta 1.
Dutt S. L. & Bros.—59, Netaji Subhas Road, Calcutta 1.
Ideal Leather Works.—117B, C.R. Avenue, Calcutta 7.
Jubilee Tannery.—54-A, Tiljala Road, Calcutta 17.
National Tannery Co. Ltd.—Mercantile Bldgs., Lall Bazar St., Calcutta 1.
Morrison & Cottle, Pvt. Ltd.—30-G, Chowringhee Road, Calcutta 16.
Young & Co.—44, Chittaranjan Avenue South, Calcutta 12.

TARPAULIN MANUFACTURERS & DEALERS

Calcutta Proofing & Pailin Mfg. Co. P. Ltd.—62, Alipore Road, Calcutta 27.
Chandi Charan Nayak Pvt. Ltd.—124-1, BBG Street, Calcutta 12.
Hemraj Girdharimull.—56, Netaji Subhas Road, Calcutta 1.
Kilburn & Co. Ltd.—2, Fairlie Place, Calcutta 1.
Madhoprasad Mahabirprasad.—9, Parsee Church Street, Calcutta 1.

New India Mercantile Co. Pvt. Ltd.—15, India Exchange Place, Calcutta.
 New India Proofing Co.—Calso Park, Calcutta 39.
 Premier Canvas Co.—28, N. S. Bose Road, Calcutta 1.
 Railway Supply Corpn. Pvt. Ltd.—10, Ganesh Chandra Avenue, Calcutta 13.
 Shew Prosad Bishnu Prosad.—11, Dinu Rakhit Lane, Calcutta 5.
 Siroar Bros Ltd.—26-1, S. N. Roy Road, Calcutta 38.
 Soobashah & Co.—12, Zakaria Street, Calcutta 1.
 Tarachand Gupta & Co.—24, Burtolia Street, Calcutta 7.
 Textile Waste Co.—113C, Netaji Subhas Road, Calcutta 7.

TEA AGENCY HOUSES

Andrew Yule & Co. Ltd.—8, Clive Row, Calcutta 1.
 Balmer Lawrie & Co. Ltd.—21, Netaji Subhas Road, Calcutta 1.
 Brooke Bond India Ltd.—9, Theatre Road, Calcutta 12.
 Davenport & Co. Pvt. Ltd.—5 & 7, N. S. Road, Calcutta 1.
 Duncan Bros. & Co. Ltd.—31, Netaji Subhas Road, Calcutta 1.
 Gillanders Arbuthnot & Co., Ltd.—Gillander House, N. S. Road, Calcutta 1.
 James Finlay & Co. Ltd.—2, Netaji Subhas Road, Calcutta 1.
 James Warren & Co. Ltd.—31, Chowringhee Road, Calcutta 16.
 Jardine Henderson Ltd.—4, Clive Row, Calcutta 1.
 Kettlewell Bullen & Co. Ltd.—21, Strand Road, Calcutta 1.
 Kilburn & Co. Ltd.—Fairlie Place, Calcutta 1.
 Macneill & Barry Ltd.—2, Fairlie Place, Calcutta 1.
 Octavius Steel & Co. Ltd.—14, Old Court House Street, Calcutta 1.
 Shaw Wallace & Co. Ltd.—4/5, Bankshall Street, Calcutta 1.
 Williamson Magor & Co. Ltd.—4, Mangoe Lane, Calcutta 1.

TEA BROKERS & MERCHANTS

Carritt Moran & Co. Pvt. Ltd.—9, R. N. Mukherjee Road, Calcutta 1.
 Figgis, A. W., & Co., Private Ltd.—D-6, Gillander House, Calcutta 1.
 J. Thomas & Co. Pvt. Ltd.—11, R. N. Mukherjee Road, Calcutta 1.
 Tea Brokers Pvt. Ltd.—29, Ganesh Chandra Avenue, Calcutta 13.
 W. S. Cresswell & Co. Pvt. Ltd.—3, Clive Row, Calcutta 1.

TEA CHEST FITTINGS MANUFACTURERS

Assam Metal Works.—7, Prasanna Kumar Metal Works, Calcutta 6.
 Assam Bengal Veneer Industries Pvt. Ltd.—9, Clive Row, Calcutta 1.
 Beezee Industries.—72-B, Upper Circular Road, Calcutta 9.
 Cassava (India)—21, Cour Laha Street, Calcutta 6.
 Hind metal Industries.—1, P. N. Mitra Lane, Calcutta 53.
 Indian Tea Chest Company.—7, Sagar Dutt Lane, Calcutta 7.
 Iron & Steel Mfg. Syndicate.—8, Eden Hospital Road, Calcutta 12.
 National Trading Corpn.—71-A, Netaji Subhas Road, Calcutta 1.
 Oriental Supplier Syndicate.—36, Brabourne Road, Calcutta 1.
 Rajasthan Metal Works.—4, Jagomohan Mullick Lane, Calcutta 7.
 Sri Bengal Tea-Chest Fittings Mfg. P. Ltd.—180, M. Gandhi Road, Calcutta 7.
 Star Fitting Works.—64, Pathuriaghata Street, Calcutta 6.
 Zeedoneil Industries (India) Pvt. Ltd.—20, Strand Road, Calcutta 1.

TIN PRINTERS

METAL PRINTERS CO., THE.—Manufacturers of Metal Posters, Calendars, Decorated Containers, Trays, Toys, Clock Dials etc., 14, Princep Street, Calcutta-13; Phone: 234500.

TOILETRIES

BENGAL CHEMICAL & PHARMACEUTICAL WORKS LTD.—6, Ganesh Chunder Avenue, Calcutta 13; Pharmaceuticals, Heavy and Fine Chemicals, High Class Toilet Products, Coal Tar Distillation Products, Fire Extinguishers, Printing Inks, Driers, etc., Branch Offices: Bombay & Kanpur.

TRACTORS & HEAVY MACHINERY PARTS

Amalgamated Universal Agencies (Calcutta).—71, Canning Street, Calcutta 1.
 Components & Machinery Corpn.—9/12, Lal Bazar Street, Calcutta 1.
 Gopal & Kumar.—14, Netaji Subhas Road, Calcutta 1.
 Green Valley Engineering Corporation.—5, Outram Street, Calcutta 16.
 Hind Enterprises.—8, Dalhousie Street East, Calcutta 1.
 Jayama Engineering Co.—22, Brabourne Road, Calcutta 1.
 Mechanical Engineering Co. Pvt. Ltd.—5, Mission Row, Calcutta 1.
 Marshall, Sons & Co. (India) Ltd.—33/1, Netaji Subhas Road, Calcutta 1.
 Tractor (India) Ltd.—1, Taratolla Road, Garden Reach, Calcutta 24.
 United Provinces Commercial Corporation.—4, Princep Street, Calcutta 13.

TRANSFORMERS

Associated Electrical Industries India, Ltd.—13, R. N. Mukherjee Road, Calcutta 1.

Electric Construction & Equipment Co. Ltd.—27B, Carnac Street, Calcutta 16.
 Elvoc Private Ltd.—36, Panditia Road, Calcutta 29.
 General Electric Co. of India (Pvt.) Ltd.—6, C. R. Avenue Road, Garden Reach, Calcutta 1.
 Gupta Engineering Co.—32, Ganesh Ch. Avenue, Calcutta 13.
 Hindustan Electric Co. Ltd.—184, J. N. Mukherjee Road, Salkia, Howrah 6.
 India Electric Works Ltd.—Diamond Harbour Road, Calcutta 34.
 India Radio Manufacturing Co.—18, Chandni Chowk Street, Calcutta-13.
 Indian Electric & Transformers Co.—7, Waterjoo Street, Calcutta 1.

TRAVEL AGENTS

(See under article on A Tourist's Guide).

N. JAMNADAS & CO.—6, Lyons Range Calcutta 1; Phones: 22-3264 & 226533, Telex. 589. Grams: "ENJAYTOURS." H.O.: Bombay; Branch: New Delhi. Travel Agents & Tour Operators Recognised by the Government of India; Reservation by Air, Sea and Rail.

TYPEWRITERS & ACCESSORIES

REMINGTON RAND OF INDIA LTD.—Business that serves all business Typewriters and business systems. 3, Council House Street, Calcutta; Phone: 237401 (10 Lines), Grams: "REMINGTONS".

VEGETABLE PRODUCTS MANUFACTURERS

Hindustan Development Corpn. Ltd.—Hindu Family Bldgs., 27, R. N. Mukherjee Road, Calcutta 1.
 Hindustan Lever Ltd.—Ilaco House, 1 & 3, Brabourne Road, Calcutta 1.
 Kusum Products Ltd.—9, Brabourne Road, Calcutta 1.
 Swalka Vanaspathi Products Ltd.—Goushala Road, Lillooah, Howrah, Calcutta.
 United Vegetable Mfrs. Ltd.—18, Zakariah St., Calcutta 1.
 Vegetable Products Ltd.—182, Old Court House Corner, Calcutta 1.

WATCHES & CLOCKS IMPORTERS & DEALERS

Abrecht & Co.—143, Radha Bazar Street, Calcutta 1.
 Anglo Swiss Watch Co.—6, Dalhousie Square East, Calcutta 1.
 Ashok Watch Co.—15, Radhabazar Street, Calcutta 1.
 Calcutta Watch Co.—19, S. P. Mukherjee Road, Calcutta 25.
 Capital Watch Co.—12, Chowringhee, Calcutta 13.
 Dutex Clock Co.—29, Weston Street, Calcutta 12.
 Empire Watch Co.—5, Radhabazar Street, Calcutta 1.
 Everest Watch Co.—20, Dharamtola Street, Calcutta 13.
 Favre Leuba & Co. Ltd.—N. E. Corner, Calcutta 1.
 Glamore Watch Co.—A12, S. Hogg Mark, Dalhousie, Calcutta 13.
 Great Western & Eastern Watch Co.—179, Dharamtola Street, Calcutta 13.
 Imperial Watch Co.—154, Radhabazar Street, Calcutta 1.
 India Watch Co.—73, M. G. Road, Calcutta 9.
 Lorenzo Watch Co.—P/36, Radha Bazar Street, Calcutta 1.
 National Watch Co.—7/1, Dharamtola Street, Calcutta 13.
 New Standard Watch Co.—152, Radhabazar Street, Calcutta.
 Omega Watch Co.—5D, Cliva Building, Calcutta 1.
 Pioneer Watch Co.—318-A, Chittaranjan Avenue, Calcutta 6.
 Popular Watch Co.—105/1, S. N. Banerjee Road, Calcutta 14.
 Rolex Watch Co. (Eastern)—16/5, Chowringhee, Calcutta 13.
 Swiss Watch Co.—84-B, D. H. Road, Calcutta 23.
 Swiss Record Watch Co.—86-2, D. H. Road, Calcutta 23.
 Tissot Watch Co.—D-5, Clive Buildings, Calcutta 1.
 Victoria Watch Co.—170, M. G. Road, Calcutta 7.
 Walton Watch Co.—12, Chowringhee, Calcutta 13.
 Watson Watch Co.—7, Radhabazar Street, Calcutta 1.

WATERPROOF AND WATERPROOFING PRODUCTS

Chemico Cement Waterproofing Industries P. Ltd.—16, India Exchange Place, Calcutta 1.
 Lloyd Bitumen Products.—4-A, Royd Street, Calcutta 16.
 Structural Waterproofing Co. P. Ltd., 21/1, Dover Road, Calcutta 19.

WATER WORKS ACCESSORIES

Annapurna Metal Works.—Near Bendel Road, Railway Crossing, Tilagala, Calcutta 39.
 Associated Watch Softeners.—4, Princep St., Calcutta 13.
 Bengal Machine Tool Works.—112, Narasingha Dutta Road, Howrah 1.
 B. N. Panchal & Sons P. Ltd.—48, Kaliprasad Banerjee Lane, 5, Bantra, Howrah 1.
 Garg & Sons.—15, Ganesh Chandra Avenue, Calcutta 13.
 Industrial Engineering Works.—149, Bellios Road, Howrah.
 Reliance Engineering Works.—233, Bellios Road, Howrah 1.

WELDING SETS & ACCESSORIES

Associated Electrical Industries (India) Ltd.—13, R. N. Mukherjee Road, Calcutta 1.
 Bosco—36, Strand Road, Calcutta 1.
 Calcutta Wire Works.—6, Tiljala Road, Calcutta 46.
 H. C. Giddings Pvt. Ltd.—C. C. R. Avenue, Calcutta 13.
 Hind Enterprises.—8, Dalhousie Square East, Calcutta 1.
 Indian Oxygen Ltd.—48-1, Diamond Harbour Road, Calcutta 27.
 Industrial Gases Ltd.—15, Ganesh Chandra Avenue, Calcutta 13.
 J. N. Samanto & Co. Pvt. Ltd.—4/5, Grand Trunk Road (S), Howrah.
 Phillips India Ltd.—7, Justice Chandra Madhab Road, Calcutta 20.
 Reliable Trading Agency.—23, BRBB Road, Calcutta 1.
 Saru Smelting & Refining Corpn. Private Ltd.—161/1, Mahatma Gandhi Road, Calcutta-7.
 Sur Iron & Steel Co. Pvt. Ltd., 15, Convent Road, Calcutta 14.

VISHWA BHARATI TRADING CO.—R 24, 2, Mallick Street, Calcutta 7. G.P.O. Box 2628, Calcutta-1; Phone: 336680, H.O. 45, Mint Road, P.B. 1052, Fort, Bombay 1; Phone: 266371 (all dep s.). Grams: "VIBHACO"; Manufacturers and Stockists of Electric & Gas Welding Sets, Welding Accessories and Gas Welding Rods, Fluxes, Welding Transformers, Spot Welders, Soldering and Brazing Equipments and all Metal Menders Requirements; Industrial Safety Equipments, Industrial goggles, Gloves and Respirators etc.

WEIGHING MACHINES & SCALES MANUFACTURERS & DEALERS

Asiatic Machinery Corpn. Pvt. Ltd.—10-1, Kailash Chandra Lane, Howrah 4.
 Avery Co. of India Pvt. Ltd.—28/2, Waterloo Street, Calcutta 1.
 Bharat Weighing Scales and Engineering Syndicate.—76-1, Kala Chand Nundy Lane, Banura, Howrah.
 Bharati Scales & Engineering Co.—4-1, Haldarpara Lane, Howrah.
 Eastern Scales P. Ltd.—12, Guru Saday Road, Calcutta 19.
 Hindustan Scale Corporation.—56, Netaji Subhas Road, Calcutta 1.
 India Machinery Co. Ltd.—29, Strand Road, Calcutta 1.
 K. P. Das & Co. Pvt. Ltd.—163, N. S. Road, Howrah.
 Satish Chandra Das & Co.—113, Khangrapatti Street, Calcutta 7.
 W. B. Scale & Co. Pvt. Ltd.—10, Kailash Chandra Lane, Santragachi, Howrah.
 Woomacharan Karmakar.—161, N. S. Road, Calcutta 1.

WIRE NETTING (WELDED MESH)

Addison Wire Products Corporation.—71-A, Netaji Subhas Road, Calcutta 1.
 Asian Agencies.—91, N. Subhas Road, Calcutta 1.
 Bengal Wire Netting Syndicate.—121, N. Subhas Road, Calcutta 1.
 Bharat Engineers & Traders.—65/1, Maharshi Debendra Road, Calcutta 6.
 Bharat Wire Netting Factory.—113, Netaji Subhas Road, Calcutta 1.
 Calcutta Netting Works.—123 & 124, Chandni Chowk, Calcutta 13.
 Indian Steel & Wire Products Ltd.—7, Wellesley Place, Calcutta 1.
 International Wire Netting Stores.—62, Netaji Subhas Road, Calcutta 1.
 Jain Wire Netting Stores.—62, Netaji Subhas Road, Calcutta 1.
 Jibon Krishna Dey & Brothers.—103, Netaji Subhas Road, Calcutta 1.
 Kiran Wire-Netting Co.—18, Raja Woodmunt Street, Calcutta 1.
 Motiram Agarwal & Co. Ltd.—137, Canning Street, Calcutta 1.
 Naik & Co.—68-A, Netaji Subhas Road, Calcutta 1.
 Spinning Accessories P. Ltd.—34, Baranashi Ghosh Street, Calcutta 7.
 Wire Products Agency.—109, N. Subhas Road, Calcutta 1.

WIRE & WIRE PRODUCTS MANUFACTURERS & DEALERS

Asoke Wire Products Pvt. Ltd.—54, Bentinck Street, Calcutta 1.
 Bengal Steel Metal Works.—19/B, B.B.G. Street, Calcutta 12.
 Bharat Steel and Wire Agency.—57, Clive Street, Calcutta 7.
 Calcutta Wire Works.—6, Tiljala Road, Calcutta 46.
 Hind Wire Industries Ltd.—P16, Kalakar Street, Calcutta 17.
 Howrah Wire Industries.—59, Canning Street, Calcutta 1.
 Indian Steel and Wire Products Ltd.—7, Wellesley Place, Calcutta.
 India Woven Wire Manufacturing Co.—66, N. S. Road, Calcutta 1.
 Mathew & Co.—5, Kachinath Dutt Road, Barangore, Calcutta 36.
 Nippon Steel Products Pvt. Ltd.—181-B, Chittaranjan Avenue, Calcutta 6.
 Standard Metal Co.—101, Netaji Subhas Road, Calcutta 1.
 Ultra Engineering Co.—172-8, Madhusudan Pal Choudhury Lane, Howrah.
 Variety Industrial Works Pvt. Ltd.—Kumarprasad Road, Lillooah, Howrah.
 Wire Products Agency.—109, Netaji Subhas Road, Calcutta 1.

WHO'S WHO IN INDIA

ABDOUN, H.E. Mr. Syed Amin Magzoub, Ambassador of the Republic of the Sudan to India. *b.* 1930 in Berber town, Northern Province of the Sudan; *Educ.*: graduated from the Univ. of Khartoum, 1955. Joined the Ministry of Communications, 1955; Third Secy., Min. of Foreign affairs, 1956; Third and Second Secy., Sudanese Embassy, Washington, 1957-60; First Secy., Sudanese Embassy, Addis Ababa, 1960-61; Consul-General, Republic of Sudan, Asmara, Eritrea, Ethiopia, 1961-63; Charge D'Affaires, Sudanese Embassy, Athens, 1963-65; Asstt. Under Secy. for Political Section, Min. of Foreign Affairs, Khartoum, 1966-68. *Address*: 147, Sunder Nagar, New Delhi 11.

ABDULLAH, Sheikh Mohamad, ex-Prime Minister, Jammu and Kashmir. *b.* 1905, in Soura, near Srinagar; *Educ.*: Srinagar; Lahore; M.Sc., Aligarh Univ. Campaigned for responsible Government and formed the Kashmir Muslim Conference which later became the National Conference in 1938; launched the 'Quit Kashmir' movement, 1946, for the complete democratisation of Kashmir; was put in prison; elected Pres., All-India States Peoples' Conference; released, 1947; was the Head of the Emergency Administration, Kashmir; member, Kashmir Delegation from India to the U.N.O.; M.P. for Kashmir till 1952; was detained, 1953-58; detained again, April 29, 1958 under the Preventive Det. Act; released on April 8, 1964; placed under restricted movements within the municipal limits of Ootacamund under the Defence of India Rules for his anti-national activities outside India, May 1965; released Dec. 25, 1967. *Address*: C/o Soura, P.O. Noushera, Srinagar.

ABID Ali, M.P., Ex-President, INTUC, *b.* 1899; Joined N.C. Movement and Khilafat 1921; actively participated in India's freedom struggle; jailed 12 times; M.L.C. Bombay, 1949-52; member, Rajya Sabha since 1952; Dy. Labour Minister, Govt. of India 1952-62; Founder member, INTUC, 1947; Pres., Bombay Pradesh INTUC, 1948-51; Indian workers' representative at International Conferences: Geneva 1963-46, Tokyo 1968, etc.; International representative of INTUC since 1963; Member, ILO Governing Body, since March 1965; Vice-Pres., ILO Conference, 1967; member, ICFTU Exec. Board, since 1965; Leader: Indian Delegation to ILO Conference, Geneva, 1953 and 1961; Asian Regional Conferences: Tokyo 1953; Delhi 1957; widely travelled all over the world. *Publications*: *Mazdoor Se Minister*. *Address*: Bombay-26.

ACHARYA, H.E. Mr. Bejoy Krizhna, B.A. (Hons.) (Econ.) (Calcutta), Indian High Commissioner to Pakistan, since Feb. 1969. *b.* May 1, 1912; *Educ.*: Calcutta and London Univs. Joined I.C.S., 1936; held charge of important Bengal dists. like Howrah, 24 Parganas, Bakarganj & Darjeeling; Dewan of Tripura & Dy. Chief Commr., Himachal Pradesh; Dy. Indian High Commr. at Dacca; Indian Minister in Cambodia; Jt. Secy., Min. of Ext. Affairs; Amb. to: Czechoslovakia & Rumania, 1959-62; Morocco & Tunisia, 1962-64; High Commr. to Canada, 1964-66; Ambassador to Brazil and Venezuela, 1966-68. *Address*: C/o External Affairs Ministry, New Delhi.

ACHARYA, Lakshmi Raman, Finance Minister, U.P. *b.* Nov. 2, 1916; *Educ.*: Mathura; St. John's Coll., Agra; Maharaja's Coll., Jaipur; Agra Coll., Agra. Practised as Advocate, Mathura, 1937-54; elected M.L.A., U.P., 1952; Dy. Min., U.P., 1954-57; Minister of State, P.W.D., Forests, Co-operative, Justice, Social Welfare and Jails,

1957-60; Cabinet Minister, 1967; jailed several times in the freedom movement; elected Pres., Mathura D.C.C. on four occasions; member, U.P.C.C. & A.I.C.C., since 1952; General Secy., U.P.C.C. *Address*: Lucknow.

ADARKAR, Bhaskar Namdeo, M.A. (Cantab.), B.A. (Bombay Univ.), M.B.E. (1946), Deputy Governor, Reserve Bank of India, since June 1965. *b.* May 18, 1910; *Educ.*: Wilson Coll., Bombay; Gonville and Caius Coll., Cambridge. Member, Indian Tariff Commn. 1952-57; Officer on Spl. Duty, Fin. Min., 1957; Delegate to E.C.A.F.E. and U.N. Gen. Assembly (1959); Exec. Dir., I.M.F., 1957-61; Min., Indian Embassy, Washington, 1958-61; Jt. Secy., the Union Commerce & Industry Ministry, 1961-63; Addl. Secy., Eco. & Defence Co-ordination Min., Feb.-Aug. 1963; Addl. Secy., Min. of Fin.; Dept. of Co-ordination, Sept. 1963; Deptt. of Econ. Affairs, 1963-65. *Publications*: *Indian Tariff Policy*; *Devaluation of the Rupee*; *The Gold Problem*; *History of the Indian Tariff*. *Address*: Reserve Bank of India, Bombay 1.

ADARKAR, Vishnu Namdeo, G. D. Art (Ptg.), Life Fellow, Central Inst. of Art and Design, Lond. ("Honoris Causa"), 1947; I.S.A. Award (1962), Padma Shri (1965), J.P., (1966). *b.* Aug. 23, 1908; *Educ.*: Sr. J. J. School of Art, Bombay. Dy. Dir., Sir J. J. School of Arts, 1939-40 and 1942-48; Supdt. and Head of the Dept. of Applied Art, Sir J. J. School of Art, 1948-58; Prof., Principal and Dean, Sir J. J. Inst. of Applied Art; Dir. of Art, Maharashtra State, 1965-68; Chairman: All India Board of Tech. Studies in Applied Art, Govt. of India; Printing Tech. Cttee., since 1958; Industrial Design Cttee., 1965; member: Philatelic Adv. Cttee., Govt. of India and the Gen. Council of the Lalit Kala Akademi, New Delhi. *Publications*: *Art Education*; *Industrial Design*. *Address*: 'Adari', 2, Kalanagar, Bandra, Bombay 51.

ADITANAR, Si. Pa., M.A., Bar-at-Law, Minister for Co-operation, Govt. of Tamil Nadu, since Feb. 1969. *b.* Sept. 27, 1905; *Educ.*: High School, Srivaikuntam; St. Joseph's Coll., Tiruchirapalli; Middle Temple, London. Is a lawyer and journalist; founded the "DAILY THANTHI" group of newspapers; M.L.C., Madras, 1952-57; M.L.A., 1957-62 and since 1967 from the Srivaikuntam Constituency; was Speaker of the Assembly. *Publications*: *Tamil Perarasu*. *Address*: No. 1, Crescent Park Road, Adyar, Madras-20.

AGERWALA, Prem Mahesh, M.B.E., M.I.E., Industrialist. *b.* Oct. 13, 1911, in Meerut; *Educ.*: D.C.E. Hons., Roorkee. Joined Tatas on Jan. 1, 1965 after 33 years in Govt. service, retiring as Member, Telecommunications Operations, P. & T. Board; Mg. Director, Tata Hydro-Electric Agencies Ltd.; Director: Tata Industries Pvt. Ltd.; Tata Hydro-Electric Power Supply Co. Ltd.; Andhra Valley Power Supply Co. Ltd.; Tata Power Co. Ltd.; Indian Hotels Co. Ltd.; National Ekco Radio & Engg. Co. Ltd.; Tata-Merlin & Gerin Ltd.; Tata Press Ltd.; Founder Member and Fellow, Institution of Telecommunication Engineers, India. *Address, Residence*: 11A, Meher Apartments, Altamount Road, Bombay 26; *Office*: Bombay House, Bruce Street, Bombay 1.

AGGARWAL, Satish Chandra, LL.B. (Bom.), Secretary, Dalmia Cement (Bharat) Ltd., New Delhi. *b.* April 10, 1925; *Educ.*: D. J. Sind Coll. and S. C. Shahani Law Coll., Karachi. Awarded I.L.O. Fellowship for study of industrial relations in U.K. and U.S.A., 1953. Attended: International Management Congress at New

York, 1963; I.L.O. Seminar on 'Wages', Denmark, 1967; Pres.: Delhi Management Assoc., 1965-67, Institute of Office Management-India, 1968-69, member: Second Cement Wage Board, 1964-67; Governing Council, All India Management Assoc., E.S.I.C., Central Apprenticeship Council; National Panel of Arbitrators of the American Arbitration Assoc. *Address*: 28, Alipur Road, Delhi-6.

AHMAD, Muzaffar, Member, Central Cttee. of C.P.I.(M) and of the Secretariat, West Bengal State Cttee., C.P.I.(M.). *b.* 1889; *Educ.*: Noakhali Zilla School and Bangabasi Coll., Calcutta. Member, C.P.I. since its inception in India, 1922; State Prisoner, 1923-24; convicted in Kanpur Bolshevik Conspiracy Case, 1924; imprisoned in Meerut Communist Conspiracy Case (1929-33); detention without trial for several terms under D.I.R., 1948-66. *Publications*: *A Treatise on Agrarian Question in India*; 'Qazi Nazrul Islam: Smriti Katha in Bengali (reminiscences); *The Communist Party of India and its Formation Abroad* in Bengali and English; *My Life and the Communist Party of India* both Bengali and English (in Press); contributes articles to papers. *Address*: 33, Alimuddin Street, Calcutta 16.

AHMED, Fakhruddin Ali, B.A. (Cantab.), Bar-at-Law, Min. for Industrial Development, Company Affairs and Wakfs, Govt. of India, since March 1967 and Deptt. of Internal Trade, since Feb. 14, 1969; Member, Cong. Wkg. Cttee. and All India Parly. Board, since 1964. *b.* May 13, 1905; *Educ.*: Govt. High School and St. Stephen Coll., Delhi; History Tripos, Cambridge Univ., 1927; called to the Bar from the Inner Temple, London, 1928. Advocate, Punjab & Assam High Courts and Senior Advocate, Supreme Court of India; member: Indian National Cong., since 1928; courted jail in freedom struggle; M.L.A., Assam, 1937-45, 1957 & 1962; M.P., Rajya Sabha, 1954-57; member, Indian delegation to the U.N. Gen. Assembly, 1957; Min. for Fin., Assam State, 1962-66. Min. for Irrigation & Power, Govt. of India, 1966; Min. for Education, 1966-67; on official tour to U.A.R., Yugoslavia, Bulgaria, France, Britain, Czechoslovakia and U.S.S.R., Sept. 12 to Oct. 12, 1967; elected to the Lok Sabha from Barpeta Constituency (Assam), 1967. *Address*: New Delhi.

AJWANI, Lalsingh Hazarisingh, M.A., Ellis Scholar and Gangadas Scholar, Sindhi Writer; Retd. Principal and Professor of English, D. & H. National and W. A. Science Coll., Bombay. *b.* July 17, 1899; *Educ.*: D. J. Coll., Karachi; Bombay Univ.; first class first in B.A. in English, 1919. Professor of English for over 40 years; First Convener, Sindhi Advisory Board, Sahitya Akademi, Delhi. *Publications*: *Immortal India*; and Sindhi books *Vichar*, *Uchhal*, etc. *Address*: Nav Jivan Colony, Mahim, Bombay 16.

AKHTAR-UL-IMAM, M.A., Cine Writer & Poet. *b.* Nov. 12, 1915; *Educ.*: Delhi Coll. & Aligarh Univ. After graduation worked for a year as Editor of a literary magazine; was a clerk in Supply Deptt.; Staff Artist, A.I.R.; became a Cine Writer and Dialogue Writer; wrote short stories too; started writing poetry, 1933; joined Shalimar Pictures, Poona, 1944. *Publications*: *Poems*; *Girdab*, 1940; *Tareek Sayyara*, 1946; *Sab Rang*, 1947. *Aab Joo* 1955; *Yaden*, 1963; *Bint-e-Lamhat* under print. Got Sahitya Akademi Award for *Yaden*, 1963. *Address*: 55, Bandstand Bldg., Kane Rd., Bombay 50.

AKILANDAM, P. V. alias AKILON, Tamil Novelist and Short Story Writer. *b.* Feb. 7, 1923; *Educ.*: Maharajah's Coll., Pudukkottai. Participated in the freedom

movement, 1941-44; took to writing; a social worker; attends coll. meetings as a speaker, etc.; broadcasts on radio; literary works are being filmed for the Tamil screen; awarded first prize for his novel by the Tamil Academy; won the 1963 Sahitya Akademi Award for his novel *Venqaiyin Maindhan*. Pres., Tamil Writers' Assoc., 1967. *Publications*: 31 books; contributes to leading journals in Tamil Nad. Producer, Spoken-word, All-India Radio, Madras. *Address*: 171, Lloyds Road, Madras 14.

AL. Valliaapa, Writer of children's books in Tamil; Member: Cttee. for the devpt. of children's literature, Tamil Nadu Govt.; Founder-Pres., Children's Writers' Assoc., Madras; Pres., Tamil Writers' Assoc. 1966. *b.* Nov. 7, 1922; *Educ.*: Pudukkottai, Tamil Nadu. Former Editor, *Poonjolai*, a monthly Tamil magazine for children; surveyed 'Juvenile Reading habits in Tamil, for the UNESCO; awarded a silver shield by Dr. Zakir Hussain, on behalf of Children's Writers' Asso., 1963. *Publications*: *Malarum Ullam*, (Central Govt. award and Madras State award 1957); *Nalla Nanbarkal*, 1955 (Mad. State award); Biographies: *Periyor Vazhvale*, *Chinnanchiru Vayadil*, 1958; *Pillai Paruvathile*, 1967. Novel: *Manikku Mani*; *Burma Ramani*, Poems: *Malarum Ullam* Vol. II; *Pattile Gandhi Kathai*; and other 40 books. *Address*: 10, Vaidyaramier Street, Madras 17.

ALI, Mr. Justice Syed Murtaza Fazl, B.A. (Hons.), B.L., Chief Justice, High Court, Jammu and Kashmir State, since Dec. 3, 1967. *b.* Dec. 20, 1920; *Educ.*: St. Joseph's Convent, Patna; Patna Univ., Patna; Muslim Univ., Aligarh. Advocate, Patna High Court, Nov. 7, 1944, and Federal Court, Dec. 1949; worked on the panel of lawyers for the State of Bihar in the Patna High Court from 1950; Judge, Jammu and Kashmir High Court, 1958-67. *Publications*: *Ten Years' Questions and Answers of the Patna University on Hindu Law, Mohammadan Law, Contract Act, Torts and Criminal Law*. *Address*: 2, Silk Factory Road, Srinagar.

ALI YAVAR JUNG BAHADUR, Dr. Nawab (Mirza Ali Yar Khan), B.A., Hons. (Oxford), Padma Bhushan (1959), Ambassador for India in U.S.A., since Feb. 1968; member, Univ. Grants Commn., since Feb. 1966; member, standing Cttee., Inter-Uni. Board & Governing Board, School of International Studies. *b.* Feb. 16, 1905; *Educ.*: Nizam Coll., Hyderabad; Queen's Coll., Oxford. Vice-Chancellor: Osmania Univ., 1945-46 & 1948-52; Aligarh Muslim Univs., 1965-68; delegate to U.N., 1946, 1950, 1952, 1953; Dy. Chairman of the Indian Delegation, 1954, 1955, 1956, 1957, 1960; Ambassador to: Argentina and Min. Plenipotentiary to Chile, 1952-54; Egypt and Min. Plenipotentiary to Lebanon & Libya, 1954-58; Yugoslavia, Greece and Min. Plenipotentiary to Bulgaria, 1958-61; France, 1961-65; Chairman: Study Team on Defence, Administrative Reforms Commission, 1966-67; U. N. Ad Hoc Cttee. for SUNFED, 1956; Doctor of Laws Honoris Causa, Osmania Univ., 1956. *Publications*: *Hyderabad in Retrospect*. *Address*: C/o. Min. of External Affairs, New Delhi.

ALKAZI, Ebrahim Hamed, Graduate of The Royal Academy of Dramatic Arts, London, Sangeet Natak Akademi Award as Best Producer of the year (1962); Padma Shri (1966), Dir., National School of Drama and Asian Theatre Inst., since 1962. *b.* Oct. 18, 1925; *Educ.*: The Royal Academy of Dramatic Arts, London. Associate, Drama Board of Great Britain; awarded the Starred Certificate for outstanding work, by the British Drama League; won the B.B.C.

Broadcasting Award, 1950; First Pres., Theatre Group, Bombay, 1947; Founder, Theatre Unit's School of Dramatic Arts, Bombay; founder-Editor, Theatre Unit Bulletin: Principal, Natya Academy, Bombay, till June 1962. *Address*: Rabindra Bhavan, Ferozeshah Road, New Delhi-1.

ALVA, Joachim, B.A., LL.B., M.P. (Rajya Sabha), Journalist and Advocate. *b.* Jan. 21, 1907, at Udipi, Mysore; *Educ.*: St. Aloysius Coll., Mangalore; St. Xavier's, Elphinstone and Law Colls., Bombay. Imprisoned in freedom movement; started *FORUM*, 1943; member, Stg. Cttee., A.I.N.E.C.; Sheriff of Bombay, 1949; twice member, Exec. Cttee., Congress Parly. Party; Member, A.I.C.C., 1956-57 and 1958; member, Parly. Consultative Cttees. of Ext. Affairs, Defence, Fin. and Atomic Energy, 1957-61; member: Prov. Parliament of India, 1950-52; Court of the Instt. of Sc.; IMMTS "Dufferin" Cttee. and Merchant Navy Board. M.P. (Lok Sabha), 1952-67; travelled extensively abroad. *Publications*: *Men and Supermen of Hindustan* (Thackers). *Address*: "Forum," Bombay.

ALVA, Smt. Violet, M.A., LL.B., Dy. Chairman, Rajya Sabha since April 19, 1962. *b.* April 24, 1908; *Educ.*: St. Xavier's Coll.; Govt. Law Coll., Bombay. Jailed in the "Quit India" Campaign 1943; M.L.C., Bombay, 1947-52; member: Stg. Cttee., A.I.N.E.C., 1952; Exec. Cttee., Cong. Party in Parliament, 1953, 1955; Public Accounts Cttee., 1954-56; Pres., Intl. Fed. of Women Lawyers, 1962; member, Indian Parly. Delegation to: Nigeria 1963; U.S.A., 1964; W. Germany, U.K. and Philippines 1965; Australia 1965; Commonwealth and Empire Law Confee. Sydney, 1965; Commonwealth Parly. Confee., 1968; also visited Japan; Leader, Indian Delegation to I.P.U. Cfee., Tehran, 1966; Dy. Min. for Home Affairs, Govt. of India, 1957-62; Pres.: Y.W.C.A. of India, 1964-66; National Fed. of Business & Professional Women of India, 1968. *Address*: 3, Asoka Road, New Delhi.

AMIN, Ramanbhai B., Industrialist; Chairman, Alembic Group of Industries. *b.* May 19, 1913, at Baroda; *Educ.*: Mechanical Engg. in Germany. Pres.: F.I.C.C. & I. 1966-67, Indian Council of Arbitration, 1966-67; Chairman: Baroda Industrial Devpt. Corpn. Ltd., Shreno Ltd., Light Publication Ltd.; Dir.: Gujarat State Fertilizers Co. Ltd.; Gujarat Machinery Mfrs. Ltd., etc.; Pres., Gujarat Flying Club; member, Exe. Cttee.: F.I.C.C. & I.; All India Organisation Industrial Employers; Member: State Advisory Council of Industries, Gujarat. *Address*: Alembic Chemical Works Co. Ltd., Alembic Road, Baroda-3.

ANAND, Mulk Raj, B.A. (Hon.), Ph.D., Padma Bhushan (1967), Author, Novelist and Critic; Editor, *Mary Magazine*. *b.* Dec. 12, 1905; *Educ.*: Punjab, London and Cambridge Universities. Sometime Tagore Prof. of Art and Literature, Chandigarh Univ., Punjab; Editor of various magazines; visiting Prof. of Art, Indian Institute of Advanced Study, Simla; member, Sahitya Akademi; Chairman, Lalit Kala Akademi, 1966-71. *Publications*: *Seven Summers, Morning Face, The Sword and the Sickle, Across The Black Waters, The Village, Two Leaves And A Bud, Coolie, Untouchable, Apology for Heroism, Lines Written to an Indian Air, Hindu View of Art, Persian Painting*, etc. *Address*: 25, Cuffe Parade, Colaba, Bombay 5.

ANASUYA DEVI, Smt. Avazarala, B.A., Musician and Cine Music Dir. *b.* May 12, 1923; *Educ.*: P. R. Coll., Kakinada. Member: Sangeet Natak Akademy, Andhra Pradesh, 1958-63; Central Audition Board for Sugam

Sangeet, Madras, Vijayawada and Hyderabad; a pioneer music composer with spl. emphasis on light and folk music of Andhra; started composing light classic and folk tunes early in life; gave lyric and folk music concerts at Rashtrapathi Bhavan, 1953; UNESCO Seminar, New Delhi, 1956; Tata's Diamond Jubilee Celebrations, Jamshedpur, 1958; inauguration of Andhra Pradesh, Hyderabad, 1956, etc. *Address*: 32, Raman Street, T. Nagar, Madras 17.

ANDERSON, George Lloyd, B.A., Mg. Director, Firestone Tyre & Rubber Co. of India Pvt. Ltd., since July 1959; Dir., Synthetics and Chemicals Ltd. *b.* Jan. 12, 1908; *Educ.*: Miami Univ., Oxford, Ohio, U.S.A., B.A., June 1928. At Firestone Plants in Akron, Ohio, U.S.A., Wkg. in various deptts. securing broad background and comprehensive knowledge of Firestone products, 1928-31; engaged in setting up Mfg. processes, Firestone: Buenos Aires, Argentina, 1931-32; Bilbao, Spain, 1933-34; Basle, Switzerland 1935-39; Production Mgr., Firestone, Bombay, 1940-Oct. 1945; Plant Dir., Firestone, Bombay, Nov. 1945 to June 1959. *Address*: Marble Arch, Pedder Road, Bombay 26.

ANGAMI, T. N., Minister for Public Works, Nagaland, since March 1969. *b.* in Jotsoma village near Kohima. Is an active member in the political life of Nagaland from 1950; was an Exec. member of the Naga National Council; broke away from it in 1955 on the question of violence, and helped the formation of the Naga People's Convention; member: Select Cttee. since the inception of Naga People's Convention, 1957; Wkg. Cttee. of N.P.C.; Chairman, Interim Body, Nagaland, 1961-63; Speaker, Leg. Assembly, Nagaland, 1964-66; Chief Minister, Nagaland, 1966-69. *Address*: Kohima.

ANJARIA, Jashwantrai Jayantilal, M.A. (Bom.), M.Sc. (Econ.) (Lond.), Padma Shri (1957), Hon. Fellow, London School of Economics, 1969, Dy. Governor, Reserve Bank of India, since Feb. 1, 1967. *b.* July 15, 1908; *Educ.*: Univ. of Bombay, London School of Economics. After serving as Lecturer, Reader and Professor at Poona and Bombay, was Asstt. Division Chief, I.M.F., Research Deptt., 1946-48; Director, Monetary Research, Reserve Bank of India, Bombay, 1948-50; Chief, Econ. Divn., Planning Comm., 1950-53; Econ. Adv., Min. of Fin. & Chief, Econ. Div., Planning Comm., 1953-56; Chief Econ. Adv., Min. of Fin., Govt. of India, and Econ. Adv., Plan. Comm., 1956-61; Exec. Dir. for India, I.M.F., 1961-67; Pres., All India Agr. Econ. Confee., Indian Economic Assocn., 1959. *Publications*: *Grounds for Political Obligation in the Hindu State, The Indian Rural Problem* (with Sir Manilal), *Price Control and Food Supply in India, Essay on Gandhian Economics; War and the Middle Class in India*. *Address*: Reserve Bank of India, Bombay 1.

ANTHONY, Frank Reginald, B.A. Nagpur Univ., M.P., Pres., Anglo-Indian Assoc.; member: National Defence Council; Viceroy's Gold Medalist in English, Univ. Prizeman and Scholar, Bar-at-Law of the Inner Temple, London. *b.* Sept. 25, 1908; *Educ.*: Nagpur Univ. and London. Leading criminal lawyer in M.P.; Pres.-in-Chief, Anglo-Indian and Domiciled European Assoc., All-India and Burma, 1942; nominated to the Central Leg., 1942 and 1946; one of India's Delegates to the U.N. Gen. Assembly, 1946; member, Constituent Assembly of India; nominated to the Lok Sabha since 1952; represented India at the Commonwealth Parly. Cfee., New Delhi, Dec. 1957; advocate, Supreme Court and The Delhi High Court, New Delhi. *Address*: The All India Anglo Indian Association, Bombay Life Bldg., Connaught Circus, New Delhi.

APPA RAO, Dr. Ponangi Sri Rama, M.A., Ph.D., National Award, 1961, Telugu Writer. *b.* July 21, 1923; *Educ.*: M.A., Andhra Univ.; Ph.D., Osmania Univ.; Govt. of India Research Scholar in Humanities, Osmania Univ., 1956-59; Officer-in-Charge of Nationalisation of Text-books in Andhra Pradesh, since 1959; Hon. Secy., A. P. Sangeeta Nataka Akademi, since 1961; recipient, National Award for his publication *Natya Sastramu*, 1961; Cultural Relations Officer, Govt. of A.P., since April, 1966. *Publications*: *Tajmahal*, Drama, 1942; *Venuvu*, Poetic Prose, 1952; *Viswabharati*, Novel, 1946; *Natya Sastramu*, 1959; Telugu Drama (Ph.D. Thesis), 1967; Bharata's Natya Sastra (English) 1967. *Address*: Special Officer, Telugu Akademi, Hyderabad 29.

ARDELEANU,* H. E. Mr. Aurel, Amb. Extraordinary and Plenipotentiary of the Socialist Republic of Romania to India, since March 3, 1964. *b.* Sept. 27, 1924 in the village of Teaca, Cluj Region, Romania; *Educ.*: The Bucharest Inst. for Economic Sciences and Plng.; graduated in 1948. Dir. in the Council of Min., 1953; Dy. Min. of Home Trade, 1954; Vice Chairman, Central Union of Co-op., 1955; Secy., Central Cttee. of Trade Unions, 1960; Dir., Ext. Affairs Min., 1963; awarded different Orders and Medals by the Govt. *Address*: Embassy of the Socialist Republic of Romania, New Delhi.

ARUMUGHAM, Sivalingam, B.Com., Minister for Education and Food, Pondicherry, since April 1969. *b.* April 16, 1934; *Educ.*: Ramaswamy Chettiar Town High School, Chidambaram; Annamalai Univ., Chidambaram. Joined D.M.K., 1954; member of its General Council, 1961; contested election to Pondicherry Assembly, 1959; elected M.L.A., March 1969. *Address*: Kalmandapam, Mannadipet, P.O. Pondicherry.

ARUNACHALAM, A. M. M., Industrialist. *b.* March 1918; Chairman, Sri Sarvaraya Sugars Ltd., Madras; Orient Tools and Gauges Ltd., Madras; Managing Director, Tube Investments of India Ltd., Madras; Director: Ashok Leyland Ltd., Madras; Bank of Baroda Ltd.; New Great Insurance Co. of India Ltd., Commerce, Bombay, etc.; extensively toured U.K. and the Continent, U.S.A. and Japan; Chairman, Madras Productivity Council, 1963-64; Hon. Consul-General for Japan in Madras, 1962-65; awarded Order of the Rising Sun by the Emperor of Japan; Pres., Cycle Manufacturers' Assoc. of India, 1967; is Chairman, Madras Regional Cttee., Engg. Export Promotion Council; Vice-Chairman, Madras Chamber of Commerce and Industry; member, Exec. Cttee., L.I.C.; Leader, Indian Delegation to the 23rd Congress of the Federation of Commonwealth Chambers of Commerce, London. *Address*: "The Laurels", 3, Chittaranjan Road, Teynampet, Madras 18.

ARUNACHALAM, M. V., B.Sc. (Hons.) (Madras), Industrialist. *b.* July 1927. Managing Director, Carborundum Universal Ltd., Tube Investments of India Ltd.; Director, Murugappa & Sons (Travancore) Pvt. Ltd.; Shamsher Sterling Cable Corpn. Ltd., etc.; visited U.S.A., U.K. and West Germany as member, N.P.C. delegation, 1959; Under Sheriff, Madras, 1956; Pres.: Madras Institute of Management; Southern India Chamber of Commerce, 1964; member, Cttee. of F.I.C.C.I.; Chairman, Neyveli Lignite Corpn.; Rotary Governor for Rotary Dist. 320 for 1970-71. *Address*: 9, Santhome High Road, Madras 4.

ATAL, H.E. Raja Jai Kumar, B.A. (Hons.) (Oxon), I.C.S., Indian Amb. to Italy, since July 1969. *b.* Jan. 19, 1914; *Educ.*: Winchester and Balliol Coll., Oxford-B.A. (Hons.), 1935. Joined I.C.S., 1936; Dy. Commr., Yeotmal, Nagpur, Chanda and Saugor, 1937-46;

Pvt. Secy. to Maulana Abul Kalam Azad, Dy. Secy., Ministries of Educ., Transport and Ext. Affairs, 1946-48; Dy. High Commr. to Pakistan, 1952-54; Min., Indian Embassy, Washington, 1954-56; Jt. Secy., Min. of Ext. Affairs, 1957-59; Amb.: Turkey, 1959-63; Ethiopia, 1963-66; Yugoslavia & Greece, 1966-69. *Address*: Atal Ban, Jaipur; C/o Ministry of External Affairs, New Delhi.

ATMA RAM, Dr., M.Sc. (Allahabad), D.Sc. (Allahabad), Padma Shri (1959), Secretary, Ministry of Educ., Govt. of India; Director General, Council of Scientific & Industrial Research, since Aug. 22, 1966. *b.* Oct. 12, 1908; *Educ.*: Allahabad. Officer-in-Charge, Joint Dir. and then Director, Central Glass & Ceramic Institute, Calcutta, 1952-66; awarded: Shanti Swarup Bhatnagar Medal (1959); U.P. Scientific Research Cttee. Gold Medal and Cash Award (1959), and the K. G. Naik Gold Medal of the M. S. Univ. of Baroda (1963); elected Hon. Fellow, Soc. of Glass Technology, Sheffield, 1966; is a Fellow, National Institute of Sciences of India and Institution of Chemists (India); Pres.: Indian Ceramic Society, 1952-53; Institution of Chemists, 1962-63; Indian Science News Assoc., since 1965; Indian Science Congress Asso.: and Vice-Pres., National Inst. of Sciences since 1967; Pres., Indian Science Cong., 1967-68. *Publications*: Over sixty scientific and technical papers in the field of physical chemistry, glass and ceramics, *History of Science*, in Hindi; over sixty patents to his credit. *Address*: New Delhi.

ATREYA, Dr. Bhikhan Lal, M.A., D., Litt. Padma Bhushan, 1957, Knight Commander, Italy, 1949, etc., Philosopher and writer; Editor: *Darshana International*; *Psychics International*; *Garvesha* (Hindi). *b.* Sept. 24, 1897; *Educ.*: Schooling at Saharanpur and Muzaffarnagar; Banaras Hindu Univ.; Coll. of Sc., Calcutta Univ. Prof., Banaras Hindu Univ., 1923-57; Birla Visiting Prof. of Indian Philosophy and Culture to Thailand, China, Japan, U.S.A., England, Poland, etc., 1948, 1951, 1952, 1954 and 1964; member: Editorial Board, Great English Indian Dictionary, etc.; *Publications*: *Shankar's Doctrine of Maya* (Hindi); *The Philosophy of Yogavasistha*; *Sri Vasistha Darshanam* (Sanskrit); *The Spirit of Indian Culture, An Intro. to Parapsychology, A History of Indian Ethics*, (Hindi), etc. *Address*: Atreya Niwas, P.O. Hindu University, Varanasi 5.

AZAD, Brajnandan, B.A. (Hons.), Editor, *The Indian Nation* (daily), Patna. *b.* April; 1908. Was a Reporter, *The Searchlight*, 1931-35; Sub-editor, *The Searchlight*, 1935-37; Reporter, *The Indian Nation*, 1937-44; Editor, *The Aryavarta* (Hindi daily), 1944-48; London Correspondent of *The Indian Nation & The Aryavarta*, 1948-50; Editor, *The Indian Nation Evening News*, 1951-53; Jt. Editor, *The Indian Nation*, 1953-64; Associate Editor, *The Indian Nation*, 1965; has visited Western Europe, U.S.A., Japan, Burma etc. *Address*: Muzharul Haque Path, Patna.

AZNAM, His Excellency Raja Aznam bin Raja Haji Ahmed, B.A. (Hons.) in Geography, Malaysian High Commissioner in India. *b.* Jan. 21, 1928; *Educ.*: Univ. of Malaya, Singapore. Malayan Civil Service, 1953-56; Second Secy., Malaysian Embassy, Bangkok, 1957-59; His Malaysian Majesty's Consul, Songkhla, Thailand, 1958-60; Charge d'Affaires/First Secy. Embassy of Malaysia, Cairo, 1960-62; Principal Asstt. Secy., (Political), Min. of Foreign Affairs, Kuala Lumpur, 1962-65; Dy. Permanent Rep. for Malaysia to the U.N., New York 1965-67. *Address*: High Commission for Malaysia in India, 3 Link Road, Jangpura, New Delhi-14.

* It is reported that he is being succeeded by Mr. Peter Tanasie.

BACHCHAN, Harbans Rai, M.A. (Alld.), Ph.D. (Cantab.), Soviet Land Nehru Award 1966, Member, Rajya Sabha, since April, 1966, Hindi poet. *b.* Nov. 27, 1907; *Educ.*: Allahabad, Banaras and Cambridge. Producer, A.I.R., Allahabad, 1955; Officer on Special Duty (Hindi), External Affairs Ministry, New Delhi, 1955-65. *Publications*: About 45. *Khadi Ke Phul*, 1948. Eng. Tr. *The House of Wine*, 1950; *Jan-Gita* (Translation of *The Gita* into Avadhi—Doha-Chaupai; *Tribhanga* (Collection of Poems), 1961; *Nai Purane Jharokhe* (Collection of essays), 1962; *Char Kheme Chaunsath Khunte* (Collection of Poems), 1963; *Do Chottanen*, 1965; *W. B. Yeats & Occultism* (English), 1965; *Katti Pratimaon Ki Aoz* (1968); etc. *Address*: 13, Willingdon Crescent, New Delhi 11

BAHADUR, Raj, Ambassador to Nepal, since Jan. 1968. *b.* Aug. 21, 1912; *Educ.*: Bharatpur; Maharaja's High School and Maharaja's Coll., Jaipur; Agra Coll. and St. John's Coll., Agra. Participated in the Quit India Movement; imprisoned 1945, '46 and '47; Vice-Pres., Bharatpur, D.C.C.: visited Turkey, Italy, France, Switzerland, U.K., Netherlands, U.S.A., Venezuela, Trinidad, W. Germany, Japan, Thailand and Malaya; elected to the Indian Constituent Assembly, 1948; Secy., Cong Party in Parliament, 1951-52; member: Rajasthan P.C.C.; A.I.C.C.; Dy. Min. for Communications, 1951-56; Min. in the Min. of Communications, 1956; Min. for Communications, 1956-57; Min. of State in the Min. of Transport and Communications, 1957-62; M.P. 1952-66; Min. for Shipping, 1962-63; Min. of Transport, Govt. of India, 1964-66; was Min. of I. & B. *Address*: C/o External Affairs Ministry, New Delhi.

BAHADUR SINGH, Indar Jit, M.A. Oxon., B.Litt., Oxon, Bar-at-Law, Indian Ambassador to United Arab Republic, since July 1969. *b.* June 12, 1914; *Educ.*: Queen's Royal Coll., Trinidad; Oxford Univ. India's Rep. on the U.N. Temporary Commn. on Korea, 1948; Dy. Secy., Ext. Affairs Min., 1949-50; First Secy., and later Counsellor, Indian Embassy, Washington, 1950-53; Indian Consul Gen. New York; Pol. Adv. to the Indian Chairman of the Neutral Nations' Repatriation Commission in Korea 1953-54; Counsellor and Charge d'Affaires, Indian Embassy, Peking, 1955-58; Commr. for the Govt. of India in British East Africa, the Federation of Rhodesia and Nyasaland and Consul Gen. of India in the Belgian Congo and Ruanda Urundi, 1958-61; Political Officer, Sikkim and Bhutan, 1961-63. Jt. Secy. Min. of Ext. Affairs. 1964-67; Amb. to Italy, 1967-69. *Address*: C/o The Ministry of External Affairs, New Delhi.

BAJAJ, Kamalnayan, Economic Tripos Pt. I, Cambridge Univ., Hindi Visharad, Prayag, M.P., business man and industrialist. *b.* Jan. 23, 1915; *Educ.*: Sabarmati Ashram, Gujarat Vidyapeeth, Ahmedabad, Satyagraha Ashram, Wardha, under Mahatma Gandhi and Acharya Vinoba Bhave; Colombo and Cambridge Univ., England. Chairman and Mg. Dir., Bachhraj & Co. Ltd.; Chairman: Mukand Iron & Steel Works Ltd.; Bajaj Electricals Ltd.; Bajaj Auto Ltd.; Dir.: several sugar, cement, banking and textile companies, etc.; Trustee, Gandhi Smarak Nidhi, etc.; Chairman, Blind Relief Assn., Bombay; Jannalal Bajaj Seva Trust and Shiksha Mandal, Wardha; Treasurer, Indian Parly. Group. *Address*: 51, Mahatma Gandhi Road, Bombay-1.

BAKSHI GHULAM MOHAMMED, M.L.A. (Jammu & Kashmir), Ex-Prime Minister, Jammu and Kashmir. *b.* July 21, 1907. Began life as a school teacher; was imprisoned during the freedom movement in the

State; worked underground during the movement for Responsible Govt. in Kashmir, 1938; organised the Peace Brigades and Border Scouts in Kashmir and Jammu during the tribal raids of 1947; Dy. Prime Minister in the Sheikh Abdulla Cabinet till Aug. 8, 1953; re-elected Leader, National Conference Parly. Party, after the General Elections in the State, 1957 and 1962; Prime Minister, J. & K. State, 1953-63; resigned under the "Kamaraj Plan" for Party Work, Sept. 1963; arrested and detained under D.I.R. on Sept. 22, 1964; released on health grounds, Dec. 1964; elected M.L.A., J. & K., on National Conference ticket, Feb. 1967. *Address*: Srinagar.

BALAMANI Amma, Smt. N., Writer. *b.* July 19, 1909; *Educ.*: Privately. Literary career: awarded 'Sahitya Nipuna' Medal instituted by the Maharaja of Cochin, Feb. 1963. Won the Kerala Sahitya Academy award, 1964 and Central Sahitya Academy award, 1966, for the book, *Muthassi*. *Publications*: *Mother* and 16 other books of poems. *Address*: C/o Mathrubhumi, Calicut, Kerala.

BALIGA, B. S. D., General Manager, Central Railway, since March 1, 1967. *b.* Sept. 29, 1914. Joined the East Indian Rly. as Asstt. Bridge Engineer, May 1937; worked in several responsible capacities such as Exec. Engineer, Officer on Special Duty (Regrouping) and Dy. Chief Engineer, Ganga Bridge Project; Divisional Supdt., 1958-59; visited the United Kingdom and France under U.N. Fellowship for the study of bridge engineering and modern railway track; appointed Engineer-in-Chief, North East Frontier Rly., March 20, 1959; later became Chief Engineer, D. B. K. Rly. Projects; Director, Research, Designs and Standards Organisation, 1962; Chief Engineer (Construction), Eastern Railway, 1962-65; Director, Civil Engineering, Railway Board, 1965-67; on deputation to U.S. on study tour, (June 17-Aug. 14, 1967). *Address*: General Manager, Central Railway, Bombay 1.

BAMZAI, Kashi Nath, B.A., LL.B. Registrar of Newspapers for India, since July 1966. *b.* July 1, 1915; *Educ.*: Sri Pratap Coll., Srinagar; Lucknow Univ. Courtted jail in Kashmir Bread Movement, 1932; Pres., Jammu & Kashmir Students Union, 1937-38; joined the editorial staff of the *National Herald*, 1939; mem., Working Cttee., All India Students Congress, 1941-42; started legal practice at Kashmir, 1943; enrolled as active member, Jammu & Kashmir National Conference; with the *Daily National Standard*, Bombay, 1944-45; Asst. Editor, *Blitz* and then its special correspondent at Delhi, 1946; Director of Information, Jammu & Kashmir Govt. at Delhi, 1948; Officer on Special Duty (Kashmir Publicity), Min. of I. & B., Govt. of India, 1949-65; Chief Press Adviser, 1965-66. *Address*: 91, Lodi Estate, New Delhi.

BANDODKAR, Dayanand B., Chief Minister, Goa, Daman & Diu. *b.* 1911. A staunch nationalist; participated in the Quit India Movement, 1942; was arrested by the Portuguese for his nationalistic activities, May 13, 1956 and imprisoned for three months; helped the underground workers during Goa's freedom struggle; a linguist, knowing Portuguese, French, Hindi & Marathi; is connected with several social activities in Goa; is a leading mine owner of Goa. *Address*: Panaji, Goa.

BANERJEE, Bhabendra Nath, B.Sc., LL.B., Cal., LL.M., London, Barrister-at-Law, Secy., Rajya Sabha, since Oct. 1963. *b.* Jan. 8, 1916; *Educ.*: Scottish Churches School and Coll.; Univ. Law Coll., Calcutta; London School of Economics; Inner Temple. Joined Bengal Judicial Service, 1942; Asstt. Solicitor, Min. of Law, Govt. of India, 1950-52; Asstt. Legal Adv. & Legal

Adv. to the Indian High Commr. in London, 1952-55; Dy. Secy., Min. of Law, Govt. of India, 1956; Dy. Secy., Rajya Sabha Secretariat, 1956-59; Jt. Secy., Rajya Sabha Secretariat, 1960-63. *Address*: Parliament House, New Delhi.

BANERJEE, Subodh, Minister for Public Works Deptt., West Bengal, since Feb. 1969. *b.* 1918; *Educ.*: Gabberia H.E. School; Ripon Coll.; Calcutta Univ.; Suffered imprisonment several times in political movements; is member, Politburo of the Socialist Unity Centre; Editor, *Socialist Unity* and *Gana-dabi*; Pres. of several workers' unions; M.L.A., West Bengal, since 1952; Labour Minister, U.F. Govt., 1967-68. *Address*: Writers' Buildings, Calcutta.

BANERJI, S. K. B.A., Ambassador to Japan, since Sept. 1967. *b.* Oct. 21, 1913; *Educ.*: Allahabad Univ. and New Coll., Oxford. Joined I.C.S., 1937; First Secy. and later, Charge d'Affairs, Indian Embassy, Tehran, 1947-49; Dy. Secy., Min. of Ext. Affairs, 1949-51; Indian Dy. High Commr., Lahore, 1951-54; Consul-Gen. of India, San Francisco, 1954-56; Min. of India to Syria, 1956; Indian Amb. to Syria, 1957-58; High Commr. for India to Malaya and Commr. to Singapore, Sarawak, Brunei and North Borneo, 1958-59; Joint Secy., Ext. Affairs Min., 1960; Chief of Protocol, 1961-64 and Addl. Secy., Ext. Affairs Min., Jan.-Oct. 1964; Amb. to West Germany, Dec. 1964-67. *Publications*: Official Reports. *Address*: C/o Ministry of External Affairs, New Delhi.

BANSAL, Ghamandi Lal, M.A., LL.B., Secy.-Gen., Federation of Indian Chambers of Commerce and Industry; ex-Dir., Central Board, the State Bank of India. *b.* Dec. 3, 1914; *Educ.*: A. V. Mission School, Ranikhet; Govt. Coll., Almora; Lucknow Univ. Represented Intl. Chamber of Commerce at 5th Session of ECAFE; attended Intl. Labour Cfses., Geneva, 1950, 1951; toured U.S.A. as Leader Specialist on American Govt. invitation; Congress M.P., Jhajjar-Rewari constituency, 1952-57; delegate to the 12th Session of ECAFE; delegate: Indian Industrial Delegation to Europe and America, 1957; U.N. Cfee. on Trade and Devpt., 1964; Indian Govt. Rep. on the Steering Cttee. of World Bank Study Team on Local Transportation, 1965; *Publications*: *India and Pakistan—An analysis of economic, mineral and agricultural resources*. *Address*: 28, Ferozeshah Road, New Delhi.

BANSI Lal, B.A., LL.B., Chief Minister, Haryana, since May 21, 1968. *b.* Oct. 10, 1927 at Golagarh village, Hissar District; *Educ.*: Passed Prabhakar and B.A. examinations privately; took law degree from Law Coll., Jullundur. Set up practice in Bhiwani, 1956; member, Rajya Sabha, 1960-66; was Secy., Loharu Praja Mandal; was Pres., Hissar District Congress Cttee.; elected to the Haryana Legislative Assembly from Tosham Constituency, 1967 and in the mid-term poll, May 1968. *Address*: Chandigarh.

BARUA, Hem, M.A., M.P., Writer in Assamese and English. *b.* April 22, 1915; *Educ.*: Calcutta. Jailed in Quit India Movement, 1942; M.P., since 1957; visited Burma, 1950; U.S.A., U.K., France, Switzerland and Italy, 1953-54, Soviet Union, 1958, Israel, 1965, Thailand, Cambodia, Laos, Malaysia, Singapore, 1965. *Publications*: Assamese: *Sagar Dekhicha*; *Sanmihali*; *Ae Gaon Ae Git*; *Adhunik Sahitya*; *Sahitya Aru Sahitya*; *Balichanda*; *Ranga Karabir Phul*; *Konnaki*; *Cupid Aru Psyche* etc. etc.; English: *August Revolution in Assam*; *Fairs and Festivals of Assam*; *Modern Assamese Poetry, (An Anthology)*; *The Red River and the Blue Hill*; *Idle Hours* 1961; *Folk songs of India*; *Assamese Literature*, Lashminath Bezbaroa. *Address*: 83-D, South Avenue, New Delhi.

BASANT, Tirth, Sahitya Akademi Award (1959), G. J. W. Foundation Award & Gold medalist (1962), Sahityakar. *b.* Sept. 7, 1909; *Educ.*: Sind. Business Exec. in Japan, 1929; Business & Teaching profession in Persia, 1931-35; Editor, *Advance India* 1940; Head master, English Adult School, Hyderabad; Editor, *Sharnai*, 1962-65; Pres., Sindhu Samaj, Delhi, 1963-65. *Publications*: *Chigoon*; *Vasant Vakha*; *Kanwar*; *Sahitya-Saar*; *Ras-golo*; *Kutta-shalla*; *Yatri*; *Shaiz-Jo-Janajo*; *Ujoro*; *Soul Force*; *Light of Life*; *Culture*; *Philosophy of History*; *Progress*; *Creative Criticism*, etc.: Translated *Nehru's Autobiography*, Tagore's *Chitra*, Shakespeare's *Antony & Cleopatra*. *Address*: BK 16/426, Lodi Colony, New Delhi-3.

BASAVAPUNNAIAH, Makineni, Member, Polit Bureau, C.P.I.(M.); ex-M.P. *b.* Dec. 14, 1914; *Educ.*: Noble Coll., Masulipatam; A. C. Coll., Guntur; studied upto B.A. Class. Secy., Guntur Dist. Communist Cttee., 1939-42; Secy., Andhra Prov. Students' Federation, 1937-39; Secretariat member, Andhra Communist Cttee., 1942-56; Secy., Andhra Provincial Cttee., 1957-58; member, Central Cttee., C.P.I., 1948-58. *Publications*: A number of political pamphlets. *Address*: 49, Lake Place, Calcutta 29.

BASU, Jyoti, B.A., Bar-at-Law, Deputy Chief Minister-in-Charge of Home, West Bengal, since Feb. 1969; Member: Polit Bureau; Central Cttee.; W. Bengal State Cttee., C.P.I.(M), since 1964. *b.* July 8, 1914; *Educ.*: St. Xavier's Coll. and Presidency Coll. Calcutta. Member: Communist Party of India, since 1940; Central Exe. Cttee. and National Council, C.P.I.; member, West Bengal Cttee., C.P.I.; detained without trial and imprisoned as undertrial on several occasions since 1948; was leader of the opposition, West Bengal Leg. Assembly; Dy. Ch. Min., W. Bengal, March-Nov. 1967; elected Dy. Leader Leg. U.F. Party, West Bengal, Feb. 20, 1969. *Address*: 55, Hindusthan Park, Calcutta 29.

BASU, Dr. K. S., Fellowship of the International Academy of Management (1960), Charat Ram Foundation Award (1965), Wallace Clark International Award for his contribution to scientific management in the international field (1966). Sir Jehangir Ghandy Medal for Industrial Peace (1967). Director, Jamnalal Bajaj Institute of Management Studies, Bombay Univ. *b.* Feb. 8, 1915, Chief Medical Officer, Hindustan Lever, 1948-52; Personnel Manager, 1952-56; Personnel Director and Member of the Board, 1956-65; Pres.: All India Management Assoc., 1963-66; Bombay Management Assocn., 1961-64; Bombay Productivity Council, 1960-63; Indian Institute of Personnel Management, 1964; Vice-Pres., Employers' Federation of India, 1962-64; Pres., Asian Assn. of Management Orgns., 1968; led the Indian Management delegation to the Twelfth Confee. of Scientific Management, Sydney and Melbourne, 1960; 14th at Rotterdam, 1966; IPCCIOS Confee., Tokyo, 1965; visited Taipei, Okhinawa, Hong Kong, United States, New Zealand, Australia, on invitation to run Management seminars, 1966-67. *Address*: 164, Backbay Reclamation, Bombay 20.

BASU, Manoj, B.A., Bengali Writer; recipient: Sahitya Akademi Prize 1966, Saratchandra Chatterji Memorial Prize and Medal (Calcutta Univ.), 1960, Narsingdas Prize (Delhi Univ.), 1954, Motilal Prize (Amrita Bazar Patrika). *b.* July 26, 1901; *Educ.*: Calcutta. Joined N. C. movement in student days; visited Ceylon, China, Russia and Central Asian countries and almost all parts of Europe. *Publications*: *Nishi Kutumba*; *Chhabi or Chhabi*; *Jal Jangal*; *Nabin Jatra*; *Rani*; *Gilmil*; *Bristi Bristi Bhuli Nai*, *Manush Garar Karigar*, *Rupabati*, *Bon Keta Basat Rajkanyar Sayambar*, *Kingsuk*; *Setubandh*; *Srnasajjai*; *Kachar Akash*; *Khadyot*, *Sesh Lagna*; *Dak Banglo*;

Nutan Prabhat, Plaban, etc.; Chin Dekhe Elam; Sovieter Deshe Deshe; Natin Europe, Natin Manush, etc.; works have been translated into English, Hindi, Malayalam etc. Address: P560, Lake Road, Calcutta 29.

BATRA, Rear Admiral Rabindar Nath, Commandant, National Defence Academy, since June 8, 1968. *b.* Jan. 19, 1919; *Educ.*: Bishop Cotton School & Coll., Simla, 1927-37. Joined the Navy, 1938; Naval training in U.K., 1938-42; Lieut., 1942; qualified in Anti-Submarine Warfare in H.M.S. OSPREY, 1943; war service in the Atlantic and Indian Oceans; held important positions in the Indian Navy till he became Captain, INS MYSORE, 1963; Captain, Naval Barracks, 1963-65; Naval Attache, Washington and Naval Adviser, Ottawa, 1965-67; Admiral Supdt., Naval Dockyard, Bombay, 1967-68. Address: National Defence Academy, Khadakvasla, Poona-23.

BELCHEV, H.E. Mr. Naiden Penev, Ambassador of Bulgaria to India. *b.* 1921; *Educ.*: Univ. of Sofia. Held various administrative and public assignments, 1944-58; has since served as Counsellor, Bulgarian Embassy, London and as Ambassador to Ghana; Chief of the African Division in the Min. of Foreign Affairs at Sofia upto 1969. Address: 198, Golf Links Area, New Delhi 3.

BENDRE, Narayan Shridhar, B.A. (Agra), G. D. Art, Bombay, Painter; Vice-Pres., National Academy of Art, New Delhi, since 1962. *b.* Aug. 21, 1910; *Educ.*: Holkar Coll., Indore; formal trg. at School of Art, Indore, trg. in Graphic Arts at Art Students' League, New York, U.S.A. and in Ceramic art at Y.W.C.A., New York, 1947. Artist-cum-Journalist at Visitors' Bureau, Kashmir, 1936-39; Free lance artist at Bombay, 1939-50; visited U.K., Middle European countries, and U.S.A., 1947-48 and West Asia, 1958; member, First Indian Cultural Delegation to China, 1952; member, Gen. Council and Exec. Board, Lalit Kala Akademi; Pres., Art Soc. of India, Bombay, 1957; has won numerous prizes at major Art Centres in India; held one man shows at Bombay, 1943, 1950, 1957, 1959 and 1968; Dean, Faculty of Fine Arts, M.S. Univ., Baroda, 1959-66. Address: 10, Kala Nagar, Bandra-East, Bombay 51.

BHABHA, C. H., M.A., B.Com., J.P., Vice-Chairman: Central Bank of India Ltd.†; Capital Issue Control Cttee.; *Dir.*: L.I.C. of India; Investment Corp. of India; Tata Engg. and Locomotive Co. Ltd.; Andhra Valley Power Supply Co. Ltd.; Swadeshi Mills Co. Ltd.; Spencer and Co. Ltd. *b.* July 22, 1910; *Educ.*: Bombay. J. P., since 1938; Commerce Member, Interim Govt. of India, Sept. 1946; Member, Works, Mines & Power, Govt. of India, Nov. 1946; Commerce Min., Govt. of India, 1947; resigned, April 1948; Leader of the Indian Delegation to and elected Vice-Pres. of, World Trade Cfce., Havana, Nov. 1947; Vice-Chairman, Rural Banking Enquiry Cttee.; Chairman, Indian Banks Assoc. (1955-61); Ex-Chairman, National Shipping Board. Address: 49, Cuffe Parade, Colaba, Bombay 5.

BHABHA, Jamshed Jehangir, Industrialist. *b.* Aug. 21, 1914, Bombay; *Educ.*: Cathedral High School, Bombay; Gonville and Caius Coll., Cambridge; Lincoln's Inn, London. Director: Tata Industries Pvt. Ltd.; Tata Services Ltd.; Stewarts & Lloyds of India Ltd., etc.; Chairman: Tata Press Ltd.; Indian Cement Co. (1937) Ltd.; Trustee: Sir Dorabji Tata Trust, J. N. Tata Endowment, Lady Tata Memorial Trust; Trustee-in-Charge: National Centre for the Performing Arts; member: Board of Trustees, Prince of Wales Museum of Western India; Govg. Board, Tata Institute of Social Sciences; Homi

Bhabha Fellowships Council; Rotary Club of Bombay; Willingdon Sports Club; Council Member, Indian Institute of Science, Bangalore. Address: Res.: 12, Little Gibbs Road, Malabar Hill, Bombay 6. Office: Bombay House, 24, Bruce Street, Fort, Bombay-1.

BHAGAT, Dhanraj, Sculptor; Incharge, Sculpture Section, Coll. of Arts, New Delhi. *b.* Dec. 20, 1917; *Educ.*: Lahore. Won Governor's Gold Medal at Akademi of Fine Art, Calcutta; exhibited all over India and abroad; visited U.S.A. on Rockefeller fellowship and toured throughout the continent and England; held group shows and nine one man shows of sculpture; competed in an international competition for unknown political prisoners; his works included in the exhibition sent by Lalit Kala Akademi to Commonwealth Countries, 1966; member: Govt. Artist Delegation to the birthday celebration of King Mahendra of Nepal, 1963; Indian Cttee. of the Intl. Assoen. of Plastic Arts, Paris. Address: 22, Hardinge Avenue, New Delhi.

BHAGAVADACHARYA, Panditraj Sarasvat Sarvabhauma, Swami, Sanskrit Poet and Philosopher; disciple of Swami Rama Manohara Prasada Acharya, Ayodhya. *b.* 1880 at Sialkot; *Educ.*: Ayodhya, Kasi, Mithila. A Sanyasi of the Shri Sampradaya; initiated into the order by the great Acharya Swami Shri Rama Manohara Prasadaji of the Shri Bindugadi of Ayodhya. *Publications*: about 100 in various languages incl. authoritative writings on the Vedas, Upanishads, Vedants, etc. and epics in Sanskrit language like *Bharataparijatam*, *Parijata-paharah*, *Parijata Saurabham* and *Ramananda Digvijayam*, *Sama Samskara Bhashyam on Samaveda*; *Yajuh Samasankar Bhashyam on Yajurveda*; *Vaidic Bhashyam* and *Ramananda Bhashyam on Brahmasootram of Vyasa*; *Bhagavadbhashyam of Bhagavadgita*; *Vishishtadvaita Darshanam*; *Ratnamanjusha*. Address: Rajnagar Society, Ellis Bridge, Ahmedabad 7.

BHAGAVANTAM,* Dr. S., M.Sc. (Madras) (Hon.), D.Sc. (Andhra), Scientific Adv. to Defence Min. and Dir. Genl., Defence Research and Devpt., since July 1961; Chairman: Bharat Electronics Ltd.; Hindustan Aeronautics Ltd.; Indian National Cttee. for Physics; Cttee. on Organization of Scientific Research. *b.* Oct. 14, 1909; *Educ.*: Nizam Coll., Hyderabad; Indian Assoen. for the Cultivation of Sc., Calcutta. Prof. of Physics and Principal, Andhra Univ., Waltair, 1932-48; Indian Scientific Liaison Officer, B.C.S.O. and Scientific Adviser to High Commissioner for India, London, 1948-49; Dir., Physical Laboratories, Osmania Univ., Hyderabad, 1949-52; Pres., Physics Sec., Indian Sc. Cong., 1946; Vice-Chancellor, Osmania Univ. 1952-57; Dir., Indian Inst. of Sc., Bangalore, 1957-62; Vice-Pres., Intl. Union of Pure & Applied Physics. *Publications*: Several scientific papers & three books, viz. *Scattering of Light and Raman Effect*, *Theory of Groups and Its Application to Physical Problems* and *Crystal Symmetry and Physical Properties*. Address: 177, South Block, New Delhi.

BHAGWATI, Mr. Justice Prafullachandra Natvarlal, B.A. (Hons.) (Maths.), LL.B., Chief Justice, Gujarat High Court, since Sept. 16, 1967. *b.* Dec. 21, 1921; *Educ.*: Elphinstone Coll. and Govt. Law Coll., Bombay; B.A. (Hons.) 1st Class, 1941; LL.B., 1945; was Dakshina Fellow in Elphinstone Coll. Courted jail in the 1942 freedom movement; apptd. fellow in Govt. Law Coll., Bombay; started practice, Bombay High Court, Feb. 1948; also practised in the Supreme Court and other High Courts; Judge, Gujarat High Court, July 1960-Sept. 1967; Actg. Governor, Gujarat State, Dec. 7-25, 1967. Address: Gujarat High Court, Navrangpura, Ahmedabad 9.

* Retired as Scientific Adviser to Min. of Defence in Oct. 1969. † Ex-Vice-Chairman, Central Bank of India.

BHAKTAVATSALAM, M., Ex-Chief Minister, Madras; Chairman, Gandhi Smarak Nidhi, Madras Branch since 1962. *b.* 1897. Gave up practice at the Bar, 1927; Dy. Mayor, Madras Corp., 1936; member and Vice-Pres., Chingleput Dist. Board, 1932-38; Vice-Pres., T.N.C.C., 1935; Secy., T.N.C.C. for a number of years; Member, AICC; Parly. Secy. to the Min. for Local Adm., 1937; Public Works Min., Madras, 1946-52; Convener, Bharat Sevak Samaj (Tamil Nad Branch); Min. for Agr. and Community Projects, 1953-54; Min. for Agr., 1954-57; Min. for Home, 1957-62; Min. for Fin. and Educ., 1962-63; elected Leader, Madras Leg. Cong. Party, Sept. 24, 1963; Pres., Farmer's Forum, Tamil Nadu, 1967. *Address*: "Mallika", Mylapore, Madras.

BHANOT, G. K., M.A., I.A.S., Chief Secretary, Govt. of Goa, Daman & Diu, since Jan. 28, 1966. *b.* March 12, 1927; *Educ.*: Lahore & Delhi. Joined I.A.S. Jan. 2, 1950; Collr. & Dist. Magistrate, Bundi, 1954-55; Dy. Secy., Irrigation, Agri., Co-op. & Social Welfare, May-Aug. 1955; Industries, Mines, Labour, Civil Supplies & Rehab. 1955-57; Gen. Adm., Home (Passports & Visas), 1957-59; Jt. Devpt. Commr., Panchayats & Ex-Officio Dy. Secy. to Govt., 1959-61; Chief Electoral Officer & Ex-Officio Secy. to Govt. of Rajasthan, 1960-62; Spl. Secy., Apptts. (Rajasthan), 1962-64; Dir. for Removal of Public Grievances and Ex-Officio Secy. to Govt. of Rajasthan, March 1964-Jan. 1966. *Address*: Panaji, Goa.

BHARDE, Trimbak Shivram, B.A., LL.B., Speaker, Maharashtra Leg. Assembly, since March 17, 1962. *b.* May 25, 1914; *Educ.*: Ahmednagar. Joined Congress, 1936; courted jail in the freedom movement; became Editor, *Sanghshakti*, weekly, 1946; introduced many reforms as Chairman, Exec. Cttee., Ahmednagar Dist. School Board; was Secy., Maharashtra Regional Congress Cttee.; elected M.L.A., Bombay from Ahmednagar, 1957; Minister for Co-operation, Bombay State, till April 1960 and of Maharashtra, 1960-62; is Chairman: Maharashtra State Bharat Sevak Samaj; Working Group, Khadi & Village Industries Board, Maharashtra; Samyukta Sadachar Samiti, Maharashtra; Working Chairman, Citizens' Defence Cttee. *Address*: "Nandanvan," 4, Little Gibbs Road, Malabar Hill, Bombay 6.

BHARGAVA, Krishna Dayal, M.A., Director of Archives, Govt. of India. *b.* Oct. 3, 1912; *Educ.*: Govt. Coll., Ajmer, Allahabad Univ. Joined the National Archives of India, 1942; Narrator, Historical Section, Ministry of Defence, 1948-50; Dy. Director, Research and Reference Division and Dy. Director (Editorial), Publications Division till the close of 1955; Dy. Secy., Ministry of Education, 1960-62; member, Exec. Cttee., Intnl. Council on Archives, Paris. *Publications*: *A Survey of Islamic Culture and Institutions: Browne Correspondence*; Joint author of *Campaigns in South East Asia and the Reconquest of Burma*, Vol. I, *The Teachings of the Buddha* (1956); Chief Editor, *The Indian Archives*. *Address*: 211, Rouse Avenue, New Delhi.

BHARGAVA, Mr. Justice Vashishtha, B.Sc. (Hons.), M.Sc. (Allahabad), Judge, Supreme Court, since Aug. 1966. *b.* Feb. 5, 1906; *Educ.*: Govt. High School, Meerut; Govt. High School, Pratapgarh; Ewing Christian Coll., Allahabad; Allahabad Univ. Joined the I.C.S., 1930; Jt. Magistrate and Asstt. Collector, U.P., 1930-35; Civil and Sessions Judge, U.P., 1935-37; Dist. and Sessions Judge, 1937-47; Addl. Commr., Food & Civil Supplies, 1947-48; Judicial Secy. & Legal Remembrancer, U.P. Govt., 1948-49; Judge, 1949-Jan. '66, and Chief Justice, Feb. 1966-July '66, High Court, Allahabad. *Address*: Supreme Court, New Delhi.

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of the R.S.P.; before partition, organised the railway employees' union; after independence, took up the cause of the tea garden workers in Dooars region; was for some time editor, *Ganabarta*; elected M.L.A., West Bengal from Kalchini, 1962 and from Alipur Dooars, 1967 and 1969; Health Minister in U.F. Govt., 1967-68. *Address*: Writers' Buildings, Calcutta.

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BHAVE, Acharya Vinoba, Social Worker. *b. Sept. 11, 1895*, in Gagoda, Kolaba Dist., Maharashtra; *Educ.*: Gagoda; Baroda Coll., Baroda. At the age of 10, took a vow of celibacy and dedicated his life to the service of the country; joined the Sabarmati Ashram, 1916; was made the head of the new Ashram at Wardha; started another hermitage at Paunar, near Wardha; was named by Gandhiji as his first rep. in the individual C. D. movement, 1940; imprisoned in the Freedom movement; originator of the Bhoodan Yagna Movement; successfully persuaded the landlords to donate land, for the landless poor; has travelled on foot over 40,000 miles since Sept. 1951 to promote the cause of Bhoodan which has now reached the phase of Gramdan and Gram Rajya; has studied all religions; is a linguist, knows all Indian languages. *Publications*: Several Marathi and Hindi Books of deep scholarly nature. *Address*: Sarva Seva Sangh, Rajghat, Varanasi P.O. (U.P.).

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Secy. of Legation, Berlin, 1949; Secy. of Embassy, Embassy of Denmark, Paris, 1951-54; First Secy., Embassy and Consul, London, 1959-61; Amb. Extr. and Plenipot. of Denmark to Accra, 1961; also Amb. to Monrovia (Residence in Accra), 1963; to Abidjan (Residence in Accra), 1964. *Address*: Royal Danish Embassy, 6 Golf Links Area, New Delhi-3; *Residence*: 7, Tees January Marg, New Delhi.

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CHAGLA, Mahomedali Currim, B.A. (Oxon.), Bar-at-Law, Hon. Fellow, Lincoln Coll., Oxford, Hon. Doctor of Laws (B.H.U.) (1967); M.P. (Rajya Sabha), Ex-Min. for External Affairs, Govt. of India; Pres., Indian Council for Cultural Relations; Vice-Pres., Sahitya Akademi, 1967-69. b. Sept. 30, 1900; *Educ.*: St. Xavier's High School and Coll., Bombay; Lincoln Coll., Oxford; called to the Bar (Inner Temple), 1922. Delegate to U.N. to fight the cause of Indians in South Africa, 1946; Puisne Judge, Bombay High Court, 1941-47; Chief Justice, 1947-58; Vice-Chancellor, Bombay Univ., April-Nov. 1947; Pres., Asiatic Soc. of Bombay, since 1947; member, Law Commn.; Governor of Bombay, Oct. 14-Dec. 10, 1956. *Ad Hoc* Judge, Intl. Court of Justice, The Hague, 1957; Chairman, L.I.C. Cttee. of Enq., Feb.-March 1958; Leader, Indian Delegation to the Security Council Debate on Kashmir, Feb. and May 1964 & Sept. 1965; received Hon. Degree of Doctor of Laws from the Univ. of Hartford, the Temple Univ., the Boston Univ. and Dartmouth Coll.; Leningrad Univ. (USSR), 1964; Punjab Univ. & Banaras Hindu Univ. 1964; Amb. in U.S.A., 1958-61; Indian High Commr. in London & Amb. to Ireland, 1961-63; Leader, Indian Delegation to U.N. General Assembly, 1967; Min. for Educ., Govt. of India, 1963-66 and Min. for Extnl. Affairs, 1966-67; resigned on Education Policy, Sept. 5, 1967. *Publications*: *The Indian Constitution* (1929); *Law, Liberty & Life*; *The Individual and the State*; *An Ambassador Speaks*; *Education and the Nation*; *Unity & Language*. *Address*: Pallonji Mansion, New Cuffe Parade, Bombay 5: 26, Western Court, New Delhi 1.

CHAKIAR, P. Mani Madhava, Natyacharya 1934, Vidooshaka Ratnam, 1960, Central Sangeet Natak Akademi's award, 1964, "Veerasrinkhalas" from Taliparamba

Temple, Zamorin Raja of Calicut, Jagadguru Sankaracharya of Kanchikamakotipadam, etc., a leading exponent of Chakiar Koothu and Koodiyattam. *b.* Feb. 15, 1899; *Educ.*: Studied Sanskrit under Vidvan Sankaran Nambudiripad of Killikurissimangalam; higher studies in Alankara Shastra under the late His Highness Parikshit Thampuram, the Maharaja of Cochin. Had his Arangettam at the age of 14; played the principal role in several traditional Koodiyattam plays; is a specialist in Rasabhinaya. *Publications*: *Atta Prakara for Kalidasa's Sakunthalam*, 2nd Canto (not published); Sanskrit verses on the Deity of the historic temple of Taliparamba. *Address*: Killikurussi Mangalam, P.O. Lakkidi, Kerala.

CHAKRAVARTY, Birendra Narayan, B.Sc., O.B.E. (1945), Governor of Haryana, since Sept. 15, 1967. *b.* Dec. 20, 1904; *Educ.*: Calcutta and London. Joined the I.C.S., 1929; Finance Secy., Bengal Govt., 1944-47; Secy. to Governor, 1947-48; Counsellor, Indian Embassy in Nanking, China, 1948; Head of Indian Liaison Mission, Tokyo, Japan, 1948-49; Jt. Secy., Ministry of External Affairs, 1949-51; Secy., Commonwealth Relations, Govt. of India, 1951-52; Indian Amb. in the Netherlands, 1952-54; Ag. Indian High Commissioner in London, Aug.-Nov. 1954; High Commissioner for India in Ceylon, 1955-56; Special Secy., Ext. Affairs Min., 1956-60; High Commissioner in Canada, 1960-62; Permanent Rep. for India in the U.N., 1962-65. *Publications*: *India Speaks to America*. *Address*: Raj Bhavan, Haryana, Chandigarh; 19, G. Road, Maharani Bagh, New Delhi 14.

CHAKRAVARTY, Jatin, B.A., B.L., Minister for Parliamentary Affairs and Chief Whip, West Bengal, since Feb. 1969. *b.* 1911; *Educ.*: Calcutta Univ. Courtted jail in the freedom movement and various movements after independence; a veteran trade union leader; elected an M.L.A. from Calcutta since 1957; joined the Revolutionary Socialist Party, 1940; is a member of the Central Exec. Cttee. of the Party; visited the U.K., Switzerland, China and U.S.S.R. as a member of trade union delegations. *Address*: Writers' Buildings, Calcutta.

CHAKRAVARTY, Smt. Renu, Minister-in-charge of Co-operation & Social Welfare, West Bengal since Feb. 1969. *b.* Oct. 21, 1917; *Educ.*: Loreto House and Coll., Calcutta; Victoria Institution and Newnham Coll., Cambridge. Was member, Exec. Cttee., All India Women's Conference; Secy., West Bengal, Mahila Atmaraksha Samiti; was member, State Council of Women's Education; member, C.P.I.; remained underground for 3 years for political reasons; elected to the Parliament from Barasat, 1962. *Address*: Writers' Buildings, Calcutta.

CHAKRAVARTY, Jatin, B.A., B.L., Calcutta, M.L.C. West Bengal; Politician; Secy., United Trades Union Congress, since 1949. *b.* Nov. 9, 1911; *Educ.*: Calcutta. A Unionist, since 1945; visited U.S.S.R. & Eastern European countries as a delegate to the W.F.T.U., 1954 and as a member, N.P.C. visited U.S.A., 1961 & Japan, 1964; represented U.T.U.C. on tripartite Cttees. & Cfce.; member, Governing Body, N.P.C., since 1958; R.S.P. M.L.A., West Bengal, 1957. *Publications*: Articles on Labour Problems published in Industrial Relations Journals. *Address*: 249, Bowbazar Street, Calcutta 12.

CHALIHA, Bimalaprosad, Chief Minister, Assam, since Dec. 1957. *b.* March 26, 1912, at Sibsagar; *Educ.*: Calcutta. Courtted jail in the freedom movement; invented a mech. automatic spg. wheel and obtained a patent for it; elected Secy., All India Spinners' Assoc., Assam Branch till 1942; elected M.L.A., Assam, from Sibsagar West,

1946; apptd. Parly. Secy., 1947; as provincial Rural Devpt. Orgr. initiated schemes for regeneration of rural economy; was the first Chairman, Assam Co-op. Apex Bank and Assam Co-op. Cottage Industries Assoc.; Gen. Secy., A.P.C.C., 1950; Pres., A.P.C.C., 1952; Member, Lok Sabha from Sibsagar, 1953; Regional Orgr. for constructive work, A.I.C.C. for Eastern Zone, 1952; elected Chairman, Reception Cttee. of the 63rd Session of the Indian National Cong.; was member, Nagaland Peace Mission. *Address*: Rockside, Shillong.

CHAND, H. E. Khub, B.A. (Hons.), I.C.S., Indian Ambassador to W. Germany, since Oct. 23, 1967. *b.* Dec. 16, 1911; *Educ.*: Delhi and Oxford. Joined the I.C.S., 1935; Dy. Secy., Min. of Defence, 1947-48; Head: Indian Military Mission, Berlin, 1948-50; Indian Mission in Bonn, 1949-50; Dy. High Commr. for India in Pakistan, Sept. 1950; Ag. High Commr., in Pakistan, 1950-51; Min. in Iraq and Jordan, 1952-55; Jt. Secy., Min. of Ext. Affairs, 1955-57; Amb. in Italy and concurrently Min. to Albania, 1957-60; High Commr. in Ghana & Sierra Leone; Commr., in Nigeria and Amb. to Liberia, Guinea & Mali, 1960-62; Amb. to Sweden & Finland, 1962-66; Leader, Indian delegation to the 41st Session of the U.N. Economic and Social Council, July/Aug. 1966; Amb. to Jordan, Kuwait & Lebanon and High Commissioner in Cyprus, 1966-67. *Address*: C/o External Affairs Ministry, New Delhi.

CHAND, Dr. Tara, M.A. (Alld.), D. Phil. (Oxon.), Hon. Prof., Univ. of Tehran (Iran), Prof. Emeritus, Alld. Univ.; Hon. Prof.: Aligarh Univ., Osmania Univ.; Hon. Chairman, History of the Freedom Movement in India; Member, Rajya Sabha, 1958-68; Historian. *b.* 1888; *Educ.*: Delhi, Meerut, Allahabad and Oxford. Prof. of Politics, Allahabad Univ., 1945-47; Vice-Chancellor, Allahabad Univ., 1947-48; Secy. & Educl. Adv., Union Min. of Educ., 1948-51; Pres., Indian History Cong.; Amb. to Iran, 1951-56. *Publications*: *A Short History of the Indian People*; *Influence of Islam on Indian Culture*; *Hindustani*; *Growth of Islamic Thought in India*; *History of Eastern and Western Philosophy*; *History of the Freedom Movement in India*, Vol. I & II; *State and Society in the Mughal Period*; *Dara Shikoh's Sirr-i-Akbar* (Persian). *Address*: 16, Stanley Road, Allahabad.

CHANDRA, Romesh, B.A. (Hons.), Lenin Peace Prize (1968), Secretary-General, World Council of Peace; Member, National Council and Central Exec. Cttee. of the C.P.I. (Central Cttee. member, since 1951); Journalist. *Educ.*: Simla, Lahore and Cambridge. Pres., Cambridge Univ. Indian Majlis, 1938; Joint Secy., All India Students' Federation, 1942; Spl. Correspondent and Sub-Editor, Communist Party Central Newspapers, *People's War* and *People's Age* 1944-48; detained under Preventive Detention Act, 1948-49; Genl. Secy., All India Peace Council, 1952-63; Editor, *New Age*, 1963-66. *Publications*: *Operation Asylum*; *Salute to Kashmir*; *Panchashila*; several pamphlets on international issues. *Address*: 6, Jamna Bhawan, Asaf Ali Road, New Delhi.

CHANDRA, Satish, M.A., B.Sc. (Hons.), Chairman & Mg. Dir., Fertilizer Corpn. of India, since Sept. 6, 1965. *b.* Oct. 16, 1916; *Educ.*: Allahabad Univ. Entered I.C.S., 1941; Dist. & General Admn., 1941-56; Mg. Dir., S.T.C., 1956; Devpt. Commsr., Small Scale Industries, 1957; Ex-Officio Chairman, National Small-Scale Industries Corpn.; Devpt. Commsr., U.P., Addl. Chief Secy. & Secy., Planning, 1958-63; Joint Secy., Min. of Defence, 1963-65; Exec. Dir., F.C.I., 1965. *Address*: F.C.I. Ltd., F-43, South Extension Area, Part I, Ring Road, New Delhi 49.

CHANDRASEKARAN, Chidambara, M.Sc. Nagpur, Ph.D. Lond., M.P.H. Johns Hopkins, U.N. Regional Demographic Advr. at ECAFE, Bangkok, since Aug. 1965. *b.* Oct. 30, 1911; *Educ.*: Nagpur, London and Johns Hopkins Univs. Rockefeller Fellow, 1947-48; Dir., U.N. Office for Population Studies, New York, 1950-54; Pres., Intn'l. Union for the Scientific Study of Population; Prof. of Statistics, All-India Instt. of Hygiene & Public Health, till July 1959; Pres., Statistics Sec., 1962 Indian Sc. Cong.; Dir., Demographic Trg. and Research Centre Bombay, 1959-65; recipient of C. J. Watumull Memorial Prize in Family Plng., 1964; Sesque Centennial Award, Univ. of Michigan, 1967. *Publications*: Over 60 original papers on Mathematical Statistics, Demography, Family Plng. and Medical and Public Health Statistics. *Address*: ECAFE, Bangkok.

CHANDRASEKHAR, Dr. Sripati, M.A., M. Litt. Madras, M.Sc. Columbia, Ph.D. New York, D. Litt. Honoris Causa, Redlands Univ., Watumull Prize (1966), Kaufman Award for distinguished work in demography and family planning in India (1969), Min. of State for Health & Family Planning, Works, Housing & Urban Development, Govt. of India, since Feb. 14, 1969. *b.* Nov. 22, 1918; *Educ.*: Vellore, Madras, Columbia, New York and Princeton Univs. Dir. of Demographic Research, UNESCO, Paris, 1947-49; Editor, *Population Review*, Madras; lectured before several American Univs. on Chinese aggression, 1960 & 1962; Visiting Prof. of Economics, Pittsburgh Univ., 1961; Demography, California Univ., 1964-65; elected M.P. (Rajya Sabha) from Madras, 1964; was Dir., Indian Inst. for Population Studies, Madras. *Publications*: *Hungry People and Empty Lands* (London 1953); *Communist China Today* (Asia 1961); *Red China: An Asian View* (New York 1961); *American Aid and India's Economic Development* (New York 1965); *Problems of Economic Development* (Boston 1967); *Asia's Population Problems* (Lond. 1967), etc. *Address*: New Delhi.

CHANDY, K. T., Chairman, Hindustan Steel Ltd., since May 29, 1968. *b.* 1913; *Educ.*: M.A. and L.L.M. from London Univ.; was called to the Bar. Practised law; Director, Hindustan Lever, 1956-61; was Director of Research and Principal for a session, Hyderabad Administrative Staff Coll.; Director, Indian Institute of Management, Calcutta, 1962-66; Chairman, Food Corporation of India, 1966-68; was member, National Planning Council; member, National Credit Council, Govt. of India and Review Cttee. to review the activities of the C.S.I.R. *Address*: Hindustan Steel Ltd., P.O. Hinoo, Ranchi.

CHATERJI, Gopal Chandra, B.Sc. (Hons.) (Geology) A.I.S.M. Director-General, Geological Survey of India, since Sept. 1966. *b.* Sept. 26, 1911; *Educ.*: Calcutta and Dhanbad. Supdtg. Geologist, 1953; organised the Groundwater Exploration Wing of the G.S.I.; was Regional Director, G.S.I.; leader, Indian delegation to: ECAFE Conference on "Mineral Resources Development", Bangkok, 1966 and Tehran, 1968; XXIII International Geological Congress, Prague, 1968; "Special Seminar on Exploration Geophysics" and "Continental Conference on Mining and Groundwater Geophysics", Ontario, Canada, 1967; elected the first Chairman, Inaugural Session of the Hydrogeology Section of the XXII International Geological Congress, New Delhi, 1964; is member: panel of Experts of Arid Zone Research Cttee., UNESCO. *Publications*: About 40 original papers encompassing various aspects of geological problems. *Address*: Geological Survey of India, 27, Jawaharlal Nehru Road, Calcutta 13.

CHATTERJEE, Dwarka Nath, B.A. (Hons.), I.F.S., Indian Ambassador to France, since Jan. 1969. *b.* Nov. 2, 1914; *Educ.*: Calcutta Univ.; King's Coll., London; London School of Economics and School of Oriental Studies, Univ. of London; won Gold Medal in All India Debating Competition. Commissioned in Artillery, 1940; served in the Army till 1948 (Major); Minister, Embassy of India, Washington, 1959-62; Ambassador in the Congo (Leopoldville), 1962-64; High Commissioner to Australia, June 1965-67; Ag. High Commissioner in U.K., 1967-68; Dy. High Commissioner in U.K., Jan. 1968-69. *Address*: C/o Ministry of External Affairs, New Delhi.

CHATTERJEE, Nirmal Chandra, M.A., P.R.S., LL.B., Bar-at-Law, M.P., Senior Advocate, Supreme Court of India; Ex-Pres., Hindu Mahasabha; Pres., All India Civil Liberties Council; Vice-Pres., Indian Branch of the Intn'l. Commn. of Jurists. *b.* Oct. 19, 1895; *Educ.*: Calcutta and London Univ. and Middle Temple. Ex-Judge, Calcutta High Court; led Kashmir Satyagraha movement along with late Dr. Syama Prasad Mookerjee; Dy. Leader, Indian Lawyers' Delegation to Moscow, 1959; M.P., Lok Sabha, Burdwan Constituency; Counsel for India at Kutch International Tribunal in Geneva. *Publications*: *Awakening of New India*; *Judicial Review of Fundamental Rights under the Indian Constitution*; *Emergency and Law*; *Company Law*. *Address*: 7-B, Pusa Road, New Delhi; P-514, Raja Basanta Roy Road, Calcutta 29.

CHATTERJI, Admiral Adhar Kumar, Chief of Naval Staff, Indian Navy, since March 4, 1966; Hon. A.D.C. to the President of India. *b.* Nov. 22, 1914; *Educ.*: Cuttack, Barisal and Calcutta. Joined the Navy, 1933; war service in the Atlantic and Indian oceans; Lieutenant-Commander, 1943; commanded: H.M.I.S. Kathiawar, 1944-45; H.M.I.S. Chamak, 1945-46; Commander, 1947; Dir. of Naval Plans 1947-49; Commander, I.N.S. Delhi, 1949-50; Captain, I.N.S. Delhi, 1950; Naval Adv., London, 1950-53; Captain, I.N.S. Delhi, 1953-54; Commodore-in-Charge, Bombay, 1954-56; Imperial Defence Coll., London, 1957; Rear Admiral, 1959; Dy. C.N.S., Indian Navy, 1958-62; Flag Officer Commanding, Indian Fleet, 1962-64; Vice-Admiral, 1964; Commandant, National Defence Coll., 1964-66; Promoted Admiral, 1968. *Address*: Naval Headquarters, New Delhi.

CHATTERJI, Dr. Suniti Kumar, M.A. Cal., D.Litt. Lond., Hon. D.Litt: Rome, Delhi, Visva Bharati, Ravindra Bharati and Osmania; Hon., F.A.S., Hon. Member, Société Asiatique, Paris, 1946, American Oriental Society, 1947, Royal Siam Soc., 1955, Oslo Academy of Scs., 1956, American Linguistic Soc., 1959; Padma Bhushan, 1955, Padma Vibhushan, 1963; Philologist; Pres., Sahitya Akademi; National Prof. of India in Humanities, since Feb. 1965. *b.* Nov. 26, 1890; *Educ.*: Calcutta, London & Paris. Khaira Prof. of Indian Linguistics and Phonetics, Calcutta Univ., 1922-52; Visiting Prof., School of South Asia Studies, Univ. of Pennsylvania, Philadelphia, U.S.A., 1951-52; Chairman: West Bengal Leg. Council, 1952-65; Govt. of India Sanskrit Commn., 1956-57. *Publications*: *Origin and Development of the Bengali Language*, 1926; *Indo-Aryan and Hindi*, 1960; *Kirata-jana-kriti*, 1951; *Africanism. The African Personality*, 1960, *Indianism & Its Synthesis*, 1962; *Langs. and Lits. of Modern India* (1963), *Dravidian* (1965); *Aryan* (1968), etc. *Address*: "Sudharma," 16, Hindusthan Park, Calcutta 29; National Library Campus, Belvedere, Calcutta 27.

CHAUDHARI, Madhukar Dhanaji, B.Com., M.Com., Minister for Educ., Maharashtra since, Feb. 19, 1964. *b.* June 16, 1928, at Nasik; *Educ.*: Khiroda, Faizpur,

Bhusawal and Wardha. Participated in the "Quit India" movement, 1942; worked for The Harijan Sevak Sangh and Adivasi Seva; M.L.A., Bombay legislature, Raver Constituency, E. K. Dist., 1957; Dy. Min. for Irrigation, Bombay State, 1957-60; Dy. Min. for Revenue, Maharashtra, 1960-62; Min. for Urban Development, March-Oct. 1962; Pub. Health, Nov. 1962-Dec. 1963; Educ., Bldg. & Communications, Dec. 1963-Feb. 1964. *Publications*: Thesis on 'A Five Year Plan for the Socio-Economic Development of Village Mahakal'. *Address*: Satpuda, 20, Nepean Road, Malabar Hill, Bombay 6.

CHAUDHURI, General Joyanto Nath, O.B.E., "Genl. of Royal Nepalese Army", 1963; 'Grand Cordon of the Order of Merit' by U.A.R. Pres., 1964; Padma Vibhushan, 1965, Indian High Commr. in Canada, since July 1966. *b.* June 10, 1908; *Educ.*: Calcutta, London and Sandhurst. Commnd., Feb. 2, 1928; during World War II saw service in the Middle East, Far East; was mentioned in despatches three times; commanded the Indian Victory Contingent to U.K., 1946; Officiating Chief of Genl. Staff, 1948; Military Governor, Hyderabad State, till Dec. 1949; Adjutant-Gen. and Chief of Genl. Staff, 1952-55; Corps Commander, 1955-58; Overall Commander, Goa operations, Dec. 1961; G.O.C.-in-C., Southern Command, 1959-62; Chief of the Army Staff, Indian Army, 1962-66; was Hon. A.D.C. General to the President. *Publications*: *Arms, Aims and Aspects*; *Operation Polo*. *Address*: N. and G. Bank (Lloyds Branch), New Delhi; C/o External Affairs Ministry, New Delhi.

CHAUDHURI, Narnarain alias. Sankho, B.A. (Calcutta), Dip. in Fine Arts (Viswa Bharati), Sculptor; Professor and Head, Deptt. of Sculpture, Faculty of Fine Arts, M. S. Univ. of Baroda. *b.* Feb. 25, 1916; *Educ.*: Calcutta and Santiniketan. Started as a freelance artist in Bombay, 1947; participated in various exhibitions in India; won the National Award, 1956; elected to the Lalit Kala Akademi, 1956; represented India in the International Symposium of Sculptors, Yugoslavia, 1961; participated in the Sao Paulo Biennale, 1961; visited Poland under the cultural exchange programme sponsored by the U.G.C.; visited U.S.S.R., West Germany and England; Dean, Faculty of Fine Arts, 1966-68. *Address*: M. S. University of Baroda, Baroda 2.

CHAUDHURI, Pratul Kumar, B.Sc. (Cal.), Secretary, Central Cttee. of the Revolutionary Socialist Party, since 1950. *b.* Feb. 9, 1913; *Educ.*: Noakhali, Tipperah and Calcutta. Was arrested under the B.C.L.A., May 1934; was in several detention camps, 1934-38; became a Marxist while in camp; delegate: Congress session, Tripuri, 1939; joined the R.S.P. from its inception; member, Prov. Exec. Cttee., R.S.P., 1946-48; took charge of the Central Office of the R.S.P., Dec. 1948; elected to its Central Cttee., 1948; Mgr., *The Call*, R.S.P.'s organ; its Mg. Editor, since 1957; visited Russia as Rep. of the U.T.U.C., May 1965; member, Wkg. Cttee., U.T.U.C., since 1948. *Publications*: Articles in *The Call*, *Mehnatkash* (a Hindi political weekly) and *Ganavarta* (a Bengali weekly). *Address*: 780, Ballimaran, Delhi-6.

CHAUDHURI, Tridib Kumar, M.A. (Econ.), C.U., M.P. (Lok Sabha), General Secy., R.S.P.; Author, journalist and political worker. *b.* Dec. 1911; *Educ.*: K. N. Coll., Berhampore. Member, Indian National Cong. prior to May, 1947; Cong. Socialist Party prior to May 1940; Anushilan Samiti, 1931-33 and 1939-46; resigned from Cong., 1947 with the R.S.P. group; imprisoned by Portuguese authorities in Goa, July 1955-Feb. 1957; Dy. Leader, United Progressive Parliamentary Group; M.P., Lok

Sabha, since 1952; Vice-Pres., U.T.U.C. *Publications*: *Swing Back* (1950); *Nineteen Months in Salazar's Prison* (1958); *About the R.S.P.*; *An outline of Socialism*, etc. *Address*: Revolutionary Socialist Party, Central Office, 780, Balimaran, Delhi 6.

CHAUDHURY, M. Moinul Haque, B.A., (Hons.); M.A., LL.B., Minister for Revenue and Forests, Govt. of Assam, since March 1967. *b.* July 1923; *Educ.*: Cotton Coll., Gauhati; Presidency Coll., Calcutta; Aligarh Univ. Joined Legal profession and became a leader; connected with many educl. instts.; twice under detention for political activities; elected Congress M.L.A., Assam, 1952, 1957 & 1962; member: Exec. Cttee., Assam P.C.C.; Assam Cong. Parly. Party; A.I.C.C. since 1959; travelled in Italy, Germany, France, Belgium, U.K., U.N. Gen. Assembly, 1961. Minister for Agr., Community Devpt., Panchayat, Fisheries, Parly. Affairs, Wakf, P.W.D. (Irrigation), Veterinary, Assam, 1957-67. *Address*: Shillong, Assam.

CHAVAN, Dajisaheb Ramrao, M.A., LL.M., Bombay, Minister of State for Petroleum, Chemicals, Metals and Mines, Govt. of India, since Feb. 14, 1969. *b.* Aug. 22, 1916; *Educ.*: Kolhapur. Member, Dist. Local Board, Satara, 1942-44; Bombay Leg. Council, 1954-56; Lok Sabha, since 1957; Dy. Min. for: Defence, Govt. of India, 1962-64; Food and Agr., 1964-66; Plng., Jan. 24-Feb. 13, 1966; Dy. Minister for Labour, Employment and Rehab., Govt. of India, 1966-67; Dy. Min. for Law, Govt. of India, March-Nov. 1967. *Address*: 21, Asoka Road, New Delhi.

CHAVAN, Shankarrao Bhaorao, B.A., Madras, LL.B. Osmania, Minister for Irrigation and Power, Govt. of Maharashtra, since May, 1960. *b.* 1920; *Educ.*: Paithan, Aurangabad District; City Coll., Hyderabad; Nizam Coll., Hyderabad. Was member, Minimum Wages Board, apptd. by Union Govt.; Vice-Pres., Central Co-op. Bank at Nanded for five years; was Dir., Hyderabad State Co-op. Bank; Chairman, Nanded Municipality, 1952-56; member, Exec. Body of All India Federation of Local Authorities; entered politics, 1945; Secy., Nanded D.C.C., 1950-53; Gen. Secy., Hyderabad P.C.C. for about 2 years; elected M.L.C., Bombay, 1956; M.L.A., Bombay since 1957; Dy. Min. for Revenue, bilingual Bombay, 1956-60. *Address*: Ramtek, Narayan Dabholkar Road, Malabar Hill, Bombay 6.

CHAVAN, Yeshwantrao Balwantrao, Min. for Home, Govt. of India, since Nov. 14, 1966. *b.* March 12, 1913, at Devrashtre, Sangli Dist.; *Educ.*: Tilak High School, Karad; Rajaram Coll., Kolhapur; Law Coll., Poona. Started practice at Karad; was a Royist first, left the movement in 1939; Pres., D.C.C., 1941; directed underground movement in Satara Dist., Aug. 1942-May 1943 until his arrest at Phaltan, 1944; member, Maharashtra P.C.C., since 1940; was its Secy., 1948, 1949 and 1950; elected M.L.A., Bombay, 1946; apptd. Parly. Secy., 1946; Min. for Civil Supplies, Bombay, 1952; was Min. for Local Self-Govt., Forests, Community Projects, Bombay; elected leader, Cong. Leg. Party, Bilingual Bombay State, Oct. 1956; unanimously re-elected leader, 1957; Chief Min.: Bombay State, 1956-60; Maharashtra, May 1960-Nov. 1962; elected leader, Maharashtra Leg. Cong. Party, 1962 general elections; elected unopposed to the Lok Sabha in Nasik by-election, 1964; Minister for Defence, Govt. of India, 1962-66; visited U.S.A., U.S.S.R., U.K., 1964 in connection with the programmes of military assistance to India; participated in the Indo-Pakistan peace talks at Tashkent, Jan. 1966; Pres., Institute for Defence Studies and Analysis. *Address*: 1, Race Course Road, New Delhi.

CHAVDA, Shiavax Dhanjibhai, G.D. Art (Bombay), Diploma in Fine Arts, Practising Artist. *b.* Dec. 11, 1914 in Gujarat; *Educ.*: C.J.N.Z. Madrasa High School, Navsari; Sir J. J. School of Art, Bombay; Slade School, London; worked at the Academie de la Grande Chaumiere, Paris; learned stage designing under the well-known Russian artist Polunin at the Slade School; also studied in St. Martin's School of Art, London. Represented in exhibitions in foreign countries like London, 1948, U.S.A., Germany, 1959, Switzerland, 1964, etc.; held one-man shows in India and abroad like Singapore, Paris, Zurich, U.S.A., etc.; travelled widely in Bali, Europe, U.S.A. and Malaya. *Publications*: *Chavda* (contemporary Series of Indian Art published by Lalit Kala Akademi). *Address*: Master Chambers, 1, Cinema Road, Dhobitalao, Bombay 20 BR.

CHEEMA, Major Autar Singh, Padma Shri (1965), Sena Medal for 'extra courage and devotion to duty', Mountaineer. *b.* Jan. 15, 1938; *Educ.*: Govt. Coll., Ludhiana. Joined, I.M.A., July 1958; got commn., June 12, 1960; had been trekking in Kashmir, Lahaul valley, Garhwal hills and Kumaon hills, 1955-62; Skiing Courses, Jan.-April 1961. Climbed Panchuli IV & V (Virgin Peaks), in one day in May 1964; climbed Rathong (Virgin Peak), Oct. 1964; climbed Everest (first batch), May 20, 1965; recipient of Arjuna Award, July 1966. *Address*: 7th Bn., The Parachute Regt., C/o 56 A.P.O.

CHERIAN, Dr. P. V., M.B.B.S., D.L.O. (R.C.S.), F.R.F.P.S.G., F.R.C.S.E., Papal Honour "Knight Commander of the Order of St. Gregory the Great", Governor of Maharashtra since Nov. 14, 1964. *b.* July 9, 1893; *Educ.*: C.M.S. Coll., Kottayam; Madras Medical Coll.; London, Glasgow and Edinburgh. Specialised in diseases of the Ear, Nose and Throat in London, Glasgow, Edinburgh and Vienna, 1925-27; Surgeon, Genl. Hospital and Prof. Medical Coll., Madras, 1927-48; Principal, Madras Medical Coll., 1945-48; acted as Surgeon-Gen., Madras, 1947; retired, Aug. 1948; was member, Syndicate of Madras and Annamalai Univs.; Mayor of Madras, 1950; Ag. Vice-Chancellor, Annamalai Univ., March-May 1955; Chairman, Madras Leg. Council, 1952-64; is Pres., Sea Cadet Council. *Address*: Raj Bhavan, Bombay 35.

CHERIAN, Smt. P.V., B.A. (Madras), Padma Bhushan (1967), Bene Merenti from the Pope, Ex-Mayor of Madras, Social worker; Chairman: Welfare, Amenities & Rehab. Cttee., Maharashtra; Fund Drive and Projects Cttee., Koyna Earthquake Rehab. Fund. *b.* May 28, 1913, in Madras; *Educ.*: Women's Christian Coll., Madras. Was Member, Senate, Madras Univ.; Pres., Adv. Board for the Hospital for Women and Children, Egmore, for over 20 years; delegate, Eastern Regional org. of Public Admn., Tokyo, 1961; Vice-Pres., Indian Cfce. of Social Work and Pres., All Mayor's Cfce., Hyderabad, June 1958; member, All India School Health Council; was Dir.: L.I.C.; I.A.C.; Regional Programmes Adv. Cttee., A.I.R.; Chairman, Handicrafts Cttee., Small-Scale Industries and Handicrafts Board. *Address*: 5, Victoria Crescent, Madras 8; Raj Bhavan, Bombay 35.

CHETTIAR, L. P. KR. Ramanathan, Panditha Vidwan, Panditha (Madura Tamil Sangam), Vidwan, Madras Univ., conferred titles of Muttamil Vittakar, Ilkkiya Vithakar and Panditamani, Tamil writer, *b.* Nov. 6, 1915; Winner, King George V. Thousand Rupee Prize, Madras Univ. Serves on various academic bodies of the Univs. of Annamalai, Madras, Mysore, Osmania, Sri Venkateswara, Andhra, Kerala and Lucknow and on Cttees. constituted by the Govt. of India and of Madras and the Annamalai Univs.; Secy.: Tamil Music Research

Cttee. of the Madras Tamil Isai Sangham from 1949; Prof. and Head of the Dept. of Tamil (Oriental), and Dean, Faculty of Oriental Studies, Annamalai Univ., 1953-68; compiled the National Bibliography—Tamil Sec. for Sahitya Academy; visited univs. and other educ. instts. in U.S.A., Canada, Malaysia, U.K. and other European countries. *Publications*: *Katturai Kovai*; *Annamalai Arasar*; *Sanga Kala Tamilar Valvu*; *Vazhakai Valam*; *Nokku*; *Tholkappiya Chelvam*; *Pathupattu Valam*, compiled twenty books in Tamil music. *Address*: 477, Poonamalle High Road, Madras 7.

CHETTIAR, T. Sundaram, B. Com., Business man; Mg. Dir., East India Corpn. Ltd. *b.* 1915, at Madurai; *Educ.*: Calcutta Univ., Mg., Agent: The Sree Meenakshi Mills Ltd., Madurai; Saroja Mills Ltd., Coimbatore & other mills; Dir.: Madura Insurance Co. Ltd., Madurai; Premier Instruments Ltd., Madras. Visited the U.S.A., U.K. and the Continent, 1948, 1961; Pres., Sri Visalakshi Kalasalai High School; member: Thiagarajar Coll. Endowment Trust; Thiagarajar Educl. Trust. *Address*: 'Meenakshi Nilayam', Tirupparan-kundaram Road, Madurai.

CHINAI, Babubhai Maneklal, L.T.M., V.J. T.I., Padma Bhushan 1966, M.P. (Rajya Sabha), Pres., All India Organisation of Industrial Employers, New Delhi. Trustee: Sardar Vallabhbhai Patel Memorial Trust; Shri Brihad Bharatiya Samaj and other trusts; Business man. *b.* April 1913, at Ahmedabad; *Educ.*: Seth Anandilal Podar High School; Sir Parsuram Bhau Coll., Poona; V.J.T.I. Bombay. Is mainly concerned with the establishment and development of rayon industry in India; courted arrest in freedom movement; Hon. Treasurer, Mahatma Gandhi National Memorial Fund (Bombay Cttee.); member: Governing Body of Indian Investment, New Delhi; A.I.C.C.; B.P.C.C.; member of several delegations abroad; Dir.: National Standard Duncun Ltd., Poddar Projects Ltd.; and several other companies; Chairman: Gandhidham Spg. & Mfg. Co. Ltd. *Address Residence*: St. Jame's Court, Netaji Subhas Road, Bombay 1; *Office*: P.N.B. House, Sir P.M. Road, Bombay 1.

CHOKSI, Jehangir Dossabhoy, Industrialist. *b.* Aug. 26, 1900 at Bangalore; *Educ.*: Bangalore, Bombay. Started practice as a Solicitor, High Court of Bombay, 1926; Partner, Wadia Ghandy & Co., Solicitors; Legal Adviser to the Tata Group of Cos., 1938-45; became Dir., Tata Sons Ltd., and Tata Industries Ltd., 1945; Vice-Chairman, Tata Industries and Tata Group, 1962-67; *Director*: Tata Sons: Sate Bank of India (Bombay & Central Boards); Indian Hotels Co. Ltd.; Voltas Ltd.; Tata International A.G., Zug, Switzerland and other Cos.; *Chairman*: New India Assurance Co. Ltd.; Indian Rare Earths Ltd. and several other Cos.; *Trustee*: Sir Dorabji Tata Trust, Lady Tata Memorial Trust; J. R. D. Tata Trust and other trusts. *Address*: Bombay House, Bruce Street, Fort, Bombay 1; "Brighton", I, Nepean Sea Road, Bombay 6.

CHOPRA, Mulk Raj, Civil Engg., Higher Grade, Roorkee: Member, American Society of Civil Engineers I.S.E., Padma Bhushan (1967), Vice-Chancellor, Roorkee University; Chairman, Central Water and Power Commn., 1962-66. *b.* Aug. 18, 1906; *Educ.*: Govt. Coll., Lahore; Thomason Engg. Coll., Roorkee. Served the Punjab Govt.; became Supdtg. Engr., 1948; led a team of engr.s to U.S.A. for designing the Bhakra Dam, 1948; took over construction of Bhakra Dam, 1953; Dy. Gen. Mgr. and then Gen. Mgr., Bhakra Dam and Beas Project, 1960-62; Secy., Punjab Govt., Bhakra Dam, Admn. 1958-62; led

a team of engr. to France, U.S.A., Canada & Japan for plng. of machinery for Beas Project. *Address* : Roorkee University, Roorkee.

CHOWDHURY, Devi Prasad Roy, M.B.E., Hon. D. Litt. (Rabindra Bharati Univ.), 1968, Padma Bhushan (Oct. 1958), Sculptor; Ex-Chairman, Lalit Kala Akademi, New Delhi. *b.* June 15, 1899; *Educ.* : Privately. Principal, Govt. School of Arts and Crafts, Madras, 1929-57; Director, Regional Arts Seminar organised by UNESCO at Tokyo, 1955; won 1st prize in the National Modern Sculpture Exhibition, sponsored by the Govt. of India; executed large group composition in bronze — Martyrs Memorial, Bihar; Mahatma Gandhi and Rhythm at National Museum, Delhi; reproduction of his paintings were published at the London Studio, New York International Studio, Moscow and other places. *Publications* : About eight books consisting of short stories in Bengali. *Address* : 63, Sham-bunath Pandit Street, Calcutta 25.

CHUNDRA, Bimal Kumar, M.B., B.S. (Calcutta), 'Distinction Award' and 'Diploma' exam. of Royal Life Saving Soc., Lond. (1959), Swimmer. *b.* Nov. 19, 1927; *Educ.* : Scottish Church Collegiate School, Scottish Church Coll. and R. G. Kar Medical Coll.; West Bengal State Champion, 1946-54; All-India Aquatic Champion in 400 metres and 1,500 metres Free Style, 1947-52; represented India in Swimming: in XIV World Olympic Games, London, 1948, and in the 1st Asian Games, New Delhi, 1951; swam in the river Ganges for seven hours and covered 27 miles; first Indian to swim the English Channel successfully from France to England in 13 hrs. 50 minutes at the first attempt, Sept. 1959; Seva Medal from St. John Ambulance Brigade (1968); Life member, Royal Life Saving Soc., London. *Address* : 46/1, Ramdulla Sircar Street, Calcutta 6.

COELHO, Vincent Herbert, B.Sc.(Hons.), Secretary, Ministry of External Affairs, Govt. of India, since Nov. 7, 1968. *b.* July 20, 1917; *Educ.* : Presidency Coll., Madras, I.A. & A.S., 1942; later I.F.S. Served in the Supply Deptt., Min. of Fin. and Cabinet Sect., 1944-47; Private Secy. to the Prime Minister, 1947-48; First Secy., Indian Embassy, Berne, 1948-49; Trade Commsr., Alexandria, 1949-50; Consul-General, Goa, 1951-54; Officer on Special Duty and later Dy. Secy., Min. of Ext. Affairs, 1954-57; Counsellor/Charge d'Affaires, Embassy of India, Ankara, 1957-59; Joint Secy., Min. of Ext. Affairs, 1959-63 and 1967-68; Amb. to Brazil, 1963-66; Indian Political Officer, Sikkim, 1966-67; Addl. Secy., Min. of Extl. Affairs, Jan.—Nov. 1968. *Address* : Ministry of External Affairs, New Delhi.

CONTRACTOR, Noman Lookmanji, Business man. *b.* August 17, 1918; *Educ.* : Privately. Mg. Dir. : Rainbow Ink & Varnish Mfg. Co. Pvt. Ltd.; Popular Fine Art Litho Works Pvt. Ltd.; Founder-member and Pres. : All India Printing Ink Mfrs. Assoc. Ltd., 1963-64; Hon. Gen. Secy., All India Federation of Master Printers, 1963-64 and its Pres., 1965-66; Member : Indian Merchants' Chamber; Indo-Arab Soc., etc.; International Assoc. of Printing House Craftsmen Inc., U.S.A.; All India Playing Card Mfrs.' Assoc.; has travelled extensively in India, U.S.A., Japan, Europe and Middle East. *Address* : 'Firdaus', 133-C, Vakola Pipe Line, Santa Cruz, Bombay 55 A.S.

COOPER, Jal Manekji, F.R.G.S., Member, British Philatelic Assoc. Ltd.; Hon. Secy., The Empire of India Philatelic Socy. *b.* March 29, 1905. Member, Glasgow Philatelic Socy., Philatelic Traders' Socy., The Air Mail Socy., etc.; Editor and Publisher of "India's Stamp

Journal". *Publications* : *Indian Rocket Mails*, *Early Indian Cancellations*, *Stamps of India*, *India used in Burma*, *India used Abroad*, and *Specialised Catalogue of Indian Stamps*. *Address* : Standard Building, Dadabhoy Naoroji Road, Bombay-1.

COOPER, Dr. Rustom Cavasjee, M. Com., Ph.D. (Econ.), F.C.A., F.S.A.A. (Hons.), Partner, P. C. Hansotia & Co., and Touche, Ross, Bailey & Smart; Pres., Indian Merchants' Chamber for 1967. *b.* Aug. 18, 1922; *Educ.* : Sydenham Coll. of Commerce & Economics, Bombay; Univ. School of Economics, Bombay & British Coll. of Accountancy, London. Practising Chartered Accountant since 1948; Pres., The Instt. of Chartered Accountants of India, 1963-64; Member : Central Direct Taxes Adv. Cttee., since 1964; Research Programmes Cttee., Finance Ministry since 1960; Dir. : Central Bank of India Ltd.; Gaekwar Mills Ltd.; etc.; Hon. Treasurer, Indian Red Cross Soc.; Specialist in Taxation and Management Consultant; Vice-Pres., Swatantra Party. *Publications* : *Bombay Public Trust Act and Handbook of Estate Duty*. *Address* : 51, Mahatma Gandhi Road, Jehangir Wadia Bldg., Bombay 1.

DAHANUKAR, Dattatreya Mahadeo, Chairman and Mg. Director, The Maharashtra Sugar Mills Ltd.; Chairman : Maharashtra Radio & Electronics Ltd.; Dir. : Schrader-Scovill Duncan Ltd.; Mg. Dir., M. L. Dahanukar and Co. P. Ltd. *b.* Dec. 21, 1911; *Educ.* : Bombay. Member : The Indian Merchants' Chamber, Bombay; The Maharashtra Chamber of Commerce, Bombay; Bombay Management Assoc., Bombay; F.I.C.C. & I., New Delhi. *Address* : Office : Industrial Assurance Building, Churchgate, Bombay 1. *Res.* : "Bakhtawar", Narayan Dabholkar Road, Malabar Hill, Bombay 6.

DAHANUKAR, Mahadeo Laxman, Mg. Dir., M. L. Dahanukar & Co. Pvt. Ltd.; Mg. Agents, The Maharashtra Sugar Mills Ltd. & The Belvandi Sugar Farm Pvt. Ltd.; Dir., Dahanukar Sons Pvt. Ltd.; N.U.C. Pvt. Ltd.; Worli Chemical Works Pvt. Ltd.; ex-Sheriff of Bombay; ex-Pres., The Maharashtra Chamber of Commerce; Employers' rep. to the International Labour Cfee., Geneva, 1939; Ex-member : Cttee. of the Indian Merchants' Chamber, Bombay; the F.I.C.C.I.; Indian National Cttee. of the International Chamber of Commerce; All-India Org. of Industrial Employers; Provincial Housing Adv. Cttee.; Regional Disposal Adv. Cttee., Bombay & other Govt. Bodies; Employers' Federation of India; Councillor, Bombay Municipal Corpn., 1932-39; and Bandra Municipality, 1932-34; takes part in commercial, industrial & social activities. *Address* : Shree Sadan, 4A, Carmichael Road, Cumballa Hill, Bombay; Industrial Assurance Building opp. Churchgate Station, Bombay 1.

DALAL, Manockji Nadirshaw, Ex-Chairman, Council of State; was Sheriff of Bombay; Vice-Pres., Indian Branch of the Commonwealth Parliamentary Assoc.; Member of the Court, Delhi Univ.; served on all Adv. Cttees. of Ministries of the Govt. of India, Civil Defence Cttee., Commonwealth Relations Cttee., etc.; Director, International Road Federation; member, Exec. Cttee., Indian Merchants' Chamber; Chairman : Elpro International Ltd.; Sepulchre Bros. (India) Ltd., etc.; Advisor, New India Assurance Co. Ltd.; Fellow, Incorporated Assoc. of Architects & Surveyors (Lond.); Fellow, Royal Soc. of Arts (London); Honourably mentioned for the Charles Hawkesley Prize, 1931, by the Royal Instt. of Civil Engrs. (London). *Address* : Nepean House, Ridge Road, Bombay 6.

DALMIA, Jaidayal, b. Dec. 1904, younger brother of Seth Ramkrishna Dalmia; *Educ.*: Privately. A leading industrialist and an able executive; has wide knowledge of machinery and plant; keenly interested in mass literacy, labour problems and maternity welfare; has travelled in India and Europe; has visited workshops of many important machinery manufacturers in Great Britain and the Continent and has good experience of different processes of cement manufacture; keenly interested in engineering; Chairman, Orissa Cement Ltd. *Address*: No. 2, Tilak Marg, New Delhi.

DALMIA, Seth Ramkrishna, Industrialist. b. April 17, 1893. His ancestors, noted for their love of spiritual service, belonged to Dalma, a village in the Haryana (Pb) State, from where they migrated to Rajputana; *Educ.*: Without the help of a tutor, by reading books in leisure time, practical experience and natural gift, acquired knowledge specially in finance, banking, commerce, economics and philosophy; also acquired good knowledge of Hindi, Bengali, Gujarati and English all of which he speaks well and with ease; well read in Hindu scriptures; started career at the age of 12 at Rs. 10 per mensem, as an apprentice with his maternal uncle; is the founder of the Dalmia-Jain Group of Industries consisting of many companies including banks, insurance and investment companies, chains of cement and sugar factories, chemicals, biscuit factories, aviation companies, railways, collieries, publishing house and newspapers; has now distributed most of the concerns between his brother and son-in-law, keeping just a few in his hands; had numerous ups and downs in his career but his steadfastness and strong will power raised him to his present position; his centres of activity have grown into self-sufficient towns, named after his ancestors and relations—Dalmianagar (Bihar), Dalmiapuram (South India), Dalmia-Dadri (Haryana), Ramkrishna Lok, Sawai Madhopur (Rajasthan), and Shantinagar (Karachi-Pakistan); one of the biggest philanthropists, his charities include schools and other institutions such as hospitals, widows' homes, poor houses and religious institutions being run by Charity Trusts; since 1951 has lived on milk and fruit juice, has vowed not to take cereals until cow slaughter is abolished; leads plain living, wears simple clothes and is frugal in his personal expenses; is on terms of friendship with religious and social leaders; has recently published a book *Political Ideology of King Mahendra of Nepal* in which he says that partyless panchayat system should be revived by self-less leaders and that the present conflict will continue until the establishment of One World Government. It has been appreciated by almost all world dignitaries in India and abroad; is orthodox in his living and having reverence for other religions, has implicit faith in his own religion and Supreme Power of Goddess "Jagadamba" who pervades and controls the Universe, and from whom all Dharma has emanated. *Address*: Durga Bhawan, 27, Akbar Road, New Delhi-11.

DALMIA, Vishnu Hari, Industrialist. b. May 1924. From young age, began taking active interest in various concerns owned and/or managed by the Dalmia Group like Bharat Bank Ltd., Bharat Fire & General Insurance Ltd., and Bharat Insurance Co., Ltd.; Chairman: Dalmia Cement (Bharat) Ltd.; Raza Buland Sugar Co., Ltd.; Bharat General Reinsurance Ltd.; The Rampur Distillery & Chemical Co., Ltd.; Director: Orissa Cement Ltd., etc.; Pres.: Cement Manufacturers' Assoc.; Vice-Pres.: Indian Sugar Mills Assoc.; Member: Main Cttee. of All India Organisation of Industrial Employers; was member, first Central Wage Board (Cement); widely travelled in Europe, Japan and U.S.A.; keenly interested in cultural and religious activities and religious literature, welfare

programmes for employees; as a strict vegetarian, takes active interest in propagation of vegetarianism. *Address*: (Office): 4, Scindia House, New Delhi 1; (Residence): Tilak Marg, New Delhi 1.

DAMLE, Kashinath Raghunath, B.Sc., (Hons.) (Allahabad and London), I.C.S. (Retd.), Chairman, Union Public Service Commission, since April 1967. b. March 3, 1906; *Educ.*: Allahabad Univ.; King's Coll., London. Joint Magistrate & Dist. & Sessions Judge in various places in U.P. & Ajmer (1930-44); Secy. to High Commr. of India in Australia, also Acting High Commr. (1944-48); Jt. Secy. & Offg. Secy. to Govt. of India & Vice-Pres., Indian Council of Agri. Research (1949-55); Chairman, Tariff Commn., 1955-58; Secy.: Union Min. of Food & Agri., 1958-62; Union Min. of Mines & Fuel, 1962-63; Min. of Petroleum & Chemicals, 1963-64; Secy. to the Pres., Oct. 1964-Feb. 1965; Lt. Governor of Goa, Daman & Diu & Admr., Dadra and Nagar Haveli, 1965-67. *Address*: Union Public Service Commission, Dholpur House, New Delhi.

DAMRY, Purviz Nadirshah, B.A. (Hons.) (Oxon.), M.A., Deputy Governor, Reserve Bank of India, since Feb. 13, 1967. b. March 13, 1914; *Educ.*: St. Paul's School, London; Christ Church, Oxford. Dist. Magistrate & Collector: Sholapur, 1943 and 1945-46; East Khandesh, 1944-45; Ahmedabad, 1947-50; Collector of Bombay, 1950; Commissioner of Labour, 1950-53; Commissioner of Sales Tax, 1953-60; Secy. to Govt. of Maharashtra: P.W.D., 1960-62; Finance & Planning, 1962-67. *Address*: C/o Reserve Bank of India, Mint Road, Bombay 1.

DANDEKAR, Ramchandra Narayan, M.A. (Sanskrit), M.A. (Ancient Indian Culture), Ph.D., Padma Bhushan, 1962, Sanskrit Scholar, Prof. of Sanskrit & Head of the Deptt. of Sanskrit & Prakrit Languages, and Dir., Centre for Advanced Study in Sanskrit, Univ. of Poona. b. March 17, 1909; *Educ.*: Deccan Coll., Poona; Heidelberg Univ. (Germany); Hon. Secy., Bhandarkar Oriental Research Inst., Poona, since 1939; Gen. Secy., All India Oriental Cfee., since 1946; attended International Congresses of Orientalists, Paris, 1948, Istanbul, 1951, Cambridge, 1954, Moscow, 1960, Ann Arbor, 1967; Vice-Pres., International Union of Orientalists; member, Sahitya Akademi; Editor, Critical Edition of Mahabharata; Editor, *Annals of B.O.R.I.*, *Journal of University of Poona*, *Erasmus. Publications: Der vedische Mensch, A History of the Guptas, Vedic Mythological Tracts, Vedic Bibliography, Salyaparvan, Rasaratnapradipika, Progress of Indic Studies, Srutakosa, Anusasanaparvan.* *Address*: University of Poona, Poona 7.

DANDEKER, Narayan, B.Sc. (Econ.) (Hons.), London, B.Com. (Hons.), London, F.C.A., Eng., F.C.A., India, I.C.S. (Retd.), M.P., Gen. Secretary, Swatantra Party; Chartered Accountant; Dir., Punjab National Bank Ltd.; Chairman, Indian Oxygen Ltd.; Albright Morarji & Pandit Ltd.; Borax Morarji Ltd. b. June 24, 1908; *Educ.*: St. Mary's European High School, Madras; Univ. Coll., Colombo, Ceylon; London School of Economics, London; School of Oriental Studies, London. Joined the I.C.S., 1931; Commr., Income-Tax at Calcutta, Punjab, Delhi, N.F.W.P., Bengal, 1941-48; Member, Central Board of Revenue, 1948; Jt. Secy., States Min., 1948; member, Cttee. on Federal Fin. Integration, 1948-49; Chief Exec., Scindia Steam Navigation Co., Ltd., Bombay, 1949-54; Mg. Dir., Cement Agencies Ltd., 1954-61; Pres.: Bombay Chamber of Commerce, 1959-60; All-India Management Assocn., 1960-63; member: Bonus Commn., 1961-64; National Shipping Board. *Address*: Southlands, 177, Upper Colaba, Bombay 5.

DANGE, Shripad Amrit, M.P., Chairman, National Council, C.P.I., since April 29, 1962; Leader, C.P.I. group in the Lok Sabha; Gen. Secy., All India Trade Union Congress. *b.* Oct. 10, 1899; *Educ.*: Bombay. Member, Central Exec. Cttee. of the C.P.I. & also member, Secretariat; Vice-Pres., World Federation of Trade Unions; courted jail for over 17 years under the British Govt. & the Cong. Govt. for conducting strikes, struggles & political activities on behalf of the Communist Party; M.P., Lok Sabha, 1957-62; again elected to the Lok Sabha from Central Bombay Constituency, 1967. *Publications*: *India from Primitive Communism to Slavery*, 1949; *Hell Found*, 1928; *Gandhi vs. Lenin*, 1921, etc. *Address*: 9, Kohinoor Road, Dadar, Bombay 14; 4/7, Asaf Ali Road, New Delhi.

DARSHAN, Bhakt, M.A. (Allahabad), Minister of State in the Min. of Education, Govt. of India, since Feb. 18, 1969. *b.* March 30, 1912; *Educ.*: D. A. V. Coll., Dehra Dun; Vishwa Bharati, Shantiniketan; Allahabad Univ. Took active part in Congress movements & was imprisoned four times; founded & edited the *Karma Bhumi* (a Hindi weekly) from Lansdowne, Garhwal; Pres., Dist. Board & Dist. Plng. Officer, Garhwal for several years; M. P., Lok Sabha from Garhwal (U.P.) since 1952; Dy. Min. of: Education, Govt. of India, 1963-67; Transport and Shipping, 1967-69. *Publications*: *Suman-Smriti-Granth*, and *Garhwal-Ki-Divangat-Vibhutiyan* (both in Hindi). *Address*: Jaiharikhal, Lansdowne, Dt. Garhwal (U.P.); 10, Hastings Road, New Delhi.

DAS, Durga, Editor in Chief, *India News and Feature Alliance*, since Nov. 1959. *b.* Nov. 23, 1900, at Aur (Punjab); *Educ.*: Jullundur & Lahore. Special Rep. of the *Statesman*, 1938-43; Jt. Editor, the *Hindustan Times*, 1944-57 & Chief Editor, 1957-59; visited the Middle East, Italy & the U.K. as War Correspondent, 1945; Chairman, Press Gallery Cfee., Indian Parliament, 1951-59 & 1962-63; Delegate to the Commonwealth Press. Cfee., Ottawa, 1950; Pres., All-India Newspaper Editors' Cfee., 1959-61; Pres., Press Club of India, New Delhi, 1959-62; member, Small Newspapers Enq. Cttee.; made round-the-world tours, 1957, 1959 and 1967. *Publications*: *India & The World*; *Ram Rajya in Action*; *Infra Press And Advertisers Year Book*; *Memoires*. *Address*: 2, Tolstoy Lane, New Delhi 1.

DAS, Dr. Nabagopal, I.C.S. (Retd.), Ph.D. (London), Life Member, Royal Eco. Soc., Author; Eco. Adv. & Vice-Pres., Hindustan Motors, Ltd., Calcutta, since 1964. *b.* Feb. 20, 1910; *Educ.*: Presidency Coll., Calcutta; London School of Economics. Entered the I.C.S., 1931; Dir. Gen., Employers' Federation of India, Bombay, 1959-63; attended the I.L.O. Sessions in San Francisco, 1948 & Geneva, 1949 & 1950, on behalf of India & in Cologne 1959 and Geneva, 1967, on behalf of Indian Employers; Founder-member, Indian P.E.N. *Publications*: *Industrial Enterprise in India*; *Unemployment and Employment Planning*; *The Public Sector in India*; *Experiments in Industrial Democracy*. *Address*: 4, Jubilee Park, Tollygunge, Calcutta-33.

DAS, Santanu Kumar, Minister for Tribal & Rural Welfare and Excise, Orissa, since March 1967. *b.* Sept. 1917; *Educ.*: Jaipur High School. Elected M.L.A., Orissa, 1942, 1946, 1952, 1957, 1961 from Salepur, Jaipur-Binjhar-pur and Jaipur (East); elected member, Constituent Assembly, till 1950; Dy. Min., 1957-59; did social work among the criminal tribes with Thakkar Bapa, courted jail in the freedom movement; joined Jana Congress Party, 1966; got elected on Jana Congress ticket, 1967; Founder Pres., Orissa Depressed Classes League; member: State

Tribes Advisory Board; Harijan Welfare Board; State Writers' Assocn.; Chairman, State Scavengers Welfare Cttee. *Publications*: *Bhai Bhai*; *Ahwan*; *Bhitamati* in Oriya; contributes to newspapers. *Address*: P.O. Box No. 89, Bhubaneswar (Orissa).

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DAS-GUPTA, Niraj Nath, M.Sc. (Cal.), Ph.D. (Lond.), F.N.I., Educationist. *b.* Feb. 1, 1909; *Educ.*: Hindu School, Presidency College; College of Science, Calcutta Univ.; King's College, London Univ. (1935-38). Cal. Univ. Gold Medalist (1931); Mahendralal Sircar Research Medalist (1938). Research Fellow, Cal. Univ. (1938-40). Research Associate, Stanford Univ., California (1945-46); Professor and Head of Biophysics Division, Saha Institute and Professor, Cal. Univ. since 1953; Member: Biophysical Society, U.S.A.; National Institute of Sciences, India; Exec. Cttee. of International Federation of Societies for Electron Microscopy, 1966; President: Electron Microscope Society of India, 1962-67. *Publications*: Over thirty papers in biophysics, electron microscopy and radiation biology and a monograph on Wilson Cloud Chamber translated into Russian. *Address*: 44, Hazra Road, Calcutta 19.

DASGUPTA, Bibhuti Bhusan, Minister for Panchayats, West Bengal, since Feb. 1969. *b.* Jan. 1904. Joined N. C. Movement, 1921; courted jail several times for active participation in political movements; spent about 20 years of his life in jail; left Congress and joined the Lok Sevak Sangha, 1949; elected M.P., 1947; elected M.L.A., West Bengal from Purulia, 1967 general election and 1969 mid-term election; Min. for Panchayats & Social Welfare, West Bengal Govt., 1967-68. *Address*: Writers' Buildings, Calcutta.

DAS GUPTA, Prodosh Kusum, B.A., F.R.S.A. (Lond.) (1955), Director, National Gallery of Modern Art, New Delhi, since July 1957. *b.* Jan. 10, 1912, Dacca; *Educ.*: Scottish Church Coll., Calcutta, Govt. School of Arts and Crafts, Lucknow, and Madras; Royal Academy of Arts, London; L.C.C. Central School of Arts and Crafts, London; Ecole De Grand Schaumere, Paris. Practised as a professional sculptor till 1950; Prof. of Sculpture, Govt. Coll. of Arts and Crafts, Calcutta, 1951-57; represented India in the International Sculpture Competition, London, 1953; President Elect, International Association of Plastic Arts, UNESCO, Vienna Session, 1960; visited Russia, 1959 and America, 1963, as an artist delegate. *Publications*: *My Sculpture* (1956); *Temple Terracottas of Bengal*; *Fallen Leaves*. *Address*: Jaipur House, New Delhi 11.

DASS, Kaushal Kumar, M.A., I.C.S., Secretary, Min. of Information and Broadcasting, Govt. of India. *b.* May 25, 1915; *Educ.*: Naini Tal; Allahabad. Appointed to I.C.S., Oct. 8, 1938; held different positions from Asstt. Collector and Magistrate, Bellary, till he became Sales Tax Commissioner; Collector, Jhansi Divn.; Commissioner for Reorganisation, Faizabad Divn.; Lucknow Divn.; Chief Secy., U.P.; Dir., National Academy of Administration, Mussoorie. *Address*: No. 12, Teen Murti Marg, New Delhi.

DAVE, R. M., Industrialist. *b.* Jan. 7, 1918; *Educ.*: Baroda Univ. Sheriff of Madras 1962-63; Pres., Hindusthan Chamber of Commerce, 1958-59; Member: Mg. Cttee., Madras State Board, AIMO; Southern Rly. Users Consultative Cttee.; Cttee Member: Hindusthan Chamber of Commerce; Slum Improvement, Government of Madras, Shri Gujarati Mandal, Madras; Dir.: Sovereign Spg. & Wvg. Mills Ltd., Madras and other Cos. *Address*: Office: Broadway, Madras-1.; *Res.*: 9-A, Venkatanarayana Road, Madras-17.

DAVE, Shantilal Somnath, Post Diploma in Painting, Artist. *b.* Sept. 25, 1931; *Educ.*: Premier High School, Ahmedabad; Fine Arts Coll., Baroda. Awarded Lalit Kala Akademi Prize, 1956, '57 and '58; Governor's Prize—Bombay Art Society, 1956, '58; 3rd major prize, S.-E. Asian Art Exhibition at Manila, 1957 for paintings and several other prizes. Murals, for Air-India International—Frankfurt, New York, Los Angeles, New Delhi, Bombay and Taj Mahal, 1960; conducted one-man show in Los Angeles; London; Bombay (twice); Delhi (thrice). *Address*: E-61, South Ext. Part 1, New Delhi 3.

DE, Biren, Artist. *b.* Oct. 8, 1926; *Educ.*: Calcutta Govt. Coll. of Arts & Crafts. Practising as free-lance artist; held several one-man shows; participated in many exhibitions abroad, Paris, 1951; São Paulo Biennale, Brazil, 1961; Tokyo Biennale, Japan, 1960 and 1962; Venice Biennale, 1962; ten Indian Painters Exhibition touring the U.S.A. and S.E. Asian Countries; won National Award for painting, 1958 and 1964; Carnegie International 1967, Pittsburg, U.S.A.; First Triennale India, 1968; worked on Fulbright Grant in New York, 1959-60. *Address*: 1, Ramkishore Road, Civil Lines, Delhi.

DE, Niren, B.A. (Calcutta), B.A. (Cantab.), Bar-at-Law, Attorney General for India, since Nov. 1968. *b.* Sept. 17, 1908; *Educ.*: Hare School, St. Xavier's School and Coll. and Presidency Coll., Calcutta; King's Coll., Cambridge; Lincoln's Inn, London. Practised in Calcutta High Court, 1933-64; member, Law Commission, Govt. of India, 1961-64; Addl. Solicitor-General of India, 1964-67; Solicitor-General of India, 1967-Oct. 1968. *Address*: 34, Aurangzeb Road, New Delhi 11.

DE MEL, Most Rev. Hiyanihindu Lakdasa Jacob, M.A., D.D., S.T.D., Lord Bishop of Calcutta & Metropolitan of the Church of India, Pakistan, Burma & Ceylon. *b.* March 24, 1902, at Colombo; *Educ.*: Royal Coll., Colombo; Keble Coll., Oxford; Cuddesdon Coll., Oxford. Vicar, St. Paul's, Kandy, 1940-45; Offg. Chaplain, 34th Indian Divn., 1942-45; consecrated Asstt. Bishop of Colombo, 1945; first Bishop of Kurunagala Diocese, Ceylon, 1950; Metropolitan, Calcutta Diocese, 1962; Canon of St. George's Cathedral, Jerusalem, 1962; Life Member, Asiatic Society; Pres., Calcutta Historical Society, 1963; Chairman: Leprosy Mission, India Auxiliary, 1966; Bible Society of India, 1967. *Address*: Bishop's House, 51, Chowringhee Road, Calcutta 16.

DEO, Ramchandra Gopal, B.Sc., A.I.S.M. (Min. Eng.), F.C.C. (Coal & Metal), M.M.G.I., Director-General of Mines Safety, Govt. of India, since Nov. 1967. *b.* July 8, 1913; *Educ.*: Nagpur Univ.; Indian School of Mines, Dhanbad. Held important posts in the Deptt. of Mines till he became Addl. Chief Inspector of Mines in 1961; Pres., Coal Mines Rescue Station Cttee., 1958-61; I.L.O., E.P. Fellow to U.S.S.R., Czechoslovakia and Poland, 1965-66; I.L.O. panel of consultants since 1967. Chairman: Mines Safety Edn. Cttee., since 1967; Mines Safety Equipment Cttee., since 1967; Boards of (Coal & Met.) Mining Examinations since 1967; National Council

for Safety in Mines since 1967; Cttee. to go into problems of disabled miners since 1967 and several other cttees. *Address*: Hirapur, Dhanbad.

DESAI, Dajiba Balavantrao, B.A. (Hons.), LL.B., Ex-M.P. (Rajya Sabha), General Secretary: Peasants and Workers Party, since 1955 and Samyukta Maharashtra Samiti; Editor, *Rashtraneer* (weekly). *Educ.*: Maratha Mandal's High School and Gilginchhi Artal High School, Belgaum; Lingaraj Coll., Belgaum; Rajaram Coll., Kolhapur; Raja Lakhmagauda Law Coll., Belgaum. Joined Peasants and Workers Party, 1948; member: Central Committee of P. & W. Party, since inception; Political Cttee. of P. & W. Party; detained in prison, April 1956; released, Oct. 1956; Secretary, Border Action Cttee.; Pres., Dakshin Maharashtra Shikshan Mandal, Belgaum. *Publications*: Marathi: *Jamin Konachi? Kasel Tyachi Ki Vikat Ghenaryachi*. *Address*: 42, Vijaynagar—Hindalaga, Belgaum.

DESAI, Dinkarra Chhotubhai, B.E. (Civil), (formerly) IRSE, IRIS, MIE, MRSH, FPW Inst., AMI Struct E., Engineer, Architect, Designer and Consultant on Health, Nutrition, Nature Cure, Agricultural Productivity, fertilisers, pest-control and veganism. *b.* May 10, 1907. Served E.I. Rly. in various capacities, 1929-48; Govt. Inspector of Rlys., Bangalore, Calcutta and Bombay 1949-58; Commissioner of Railway Safety in India, 1959-64; Founder: Religion of Compassion, International Research Centre for World problems etc. *Publications*: *In Quest of Rly. Safety*: several pamphlets, and articles on Electronics, Vegetarianism, Nature Cure, Veganism, Agriculture and Compassion. *Address*: Karuna Mandir, Tithal Road, Bulsar (W. Rly.).

DESAI, Doulatrao Shripatrao, B.A., LL.B., Minister for Revenue, Maharashtra State, and Dy. Leader, Maharashtra Leg. Cong. Party, since March, 1967; Chairman, Film Adv. Cttee., since Aug. 22, 1967. *b.* March 10, 1910, at Marali, Dist. North Satara; *Educ.*: Rajaram High School, Rajaram Coll. & Sykes Law Coll., Kolhapur. Commenced practice at Karad & Patan, 1939; Pres., Dist. Local Board, Satara, 1941-52; member: Provincial Edu. Board; Maharashtra Pradesh Social Edu. Board; Bombay State Road Transport Corpn., 1955-57; Pres., Central Adv. Cttee. of Regulated Markets in Maharashtra; Gen. Secy., P.C.C., 1952-57; Chief Whip, Congress Leg. Party; M.L.A., Bombay from Patan Constituency since 1952; Min., P.W.D., Bombay Govt., 1957-60; Edu. Min., Maharashtra, 1960-62; Min. for Agr., 1962-63; Min. for Home, Maharashtra State, 1963-67. *Address*: "Meghdut," Narayan Dabholkar Road, Bombay 6.

DESAI, Hitendra Kanaiyalal, B.A., LL.B., Chief Min., in charge of Home, Plng., Gen. Adm., Information, Gujarat State, since March 1967. *b.* Aug. 9, 1915, at Surat; *Educ.*: Surat and Bombay; awarded "Codden Club Medal" by Bombay Univ.; was Fellow for a year. Started practising law & made a mark in legal profession; courted jail during freedom movement; Chairman: Law Cttee., 1946-49; Stg. Cttee., since 1949; Vice-Pres. and Chairman, Stg. Cttee., since 1952; member, Senate, Gujarat Univ. and Rural Advisory Cttee. of All India Radio; M.L.A., Bombay from the Mangrol Constituency, 1957; Min. for Edu., Bombay State, 1957-60; Gujarat State 1960-62; Min. for Edu., Social Welfare, Rehab., Agr. & Forest, Excise and Prohibition; elected Dy. Leader, Gujarat Leg. Congress Party, Sept. 19, 1963; Min. for Home, 1963-65; apptd. leader of the House, since Feb. 17, 1964 and Chief Min. from Oct. 1, 1965. *Publications*: Several popular booklets on political, economic and social topics. *Address*: Sachivalaya, Ahmedabad 15.

DESAI, Kantilal Thakordas, B.A. (Hons.), LL.B., Chairman, Bennett, Coleman & Co. Ltd., Bombay, since Aug. 25, 1969; Vice-Chairman, State Bank of India, since 1966. *b.* May 23, 1903; *Educ.*: New High School and St. Xavier's High School, Bombay; Elphinstone, Wilson and Govt. Law Colleges, Bombay; passed his Articled Clerks Examination which qualified him to practise as a solicitor, 1928 and Advocate (O.S.) Exam., 1930. Started practice on the original side, Bombay High Court, 1930; Judge, Bombay High Court, 1957-60; was Presiding Officer, National Industrial Tribunal (Bank Disputes); Judge, Gujarat High Court, 1960-61; appointed Chief Justice, Jan. 26, 1961; retired, May 1963; appointed by the Govt. of India as Chairman, Marine Services Enquiry Cttee. to make recommendations regarding service conditions of Pilots, Dredging Masters and other Officers in the employment of Bombay Port Trust, 1967 and in respect of other major ports of India, i.e., Calcutta, Madras, Vizag, Cochin, Paradip, Kandla and Mormugao, 1968; is Chairman: Board of Visitors for the St. George's Hospital, Bombay; Commission of Enquiry set up by the Govt. of Maharashtra to go into the question of private practice being allowed to full-time Govt. Medical Officers. *Address*: Archana, Plot No. 265, 12th Road, Khar, Bombay 52.

DESAI, Khandubhai Kasanji, Snatak (Gujarat Vidyapith, Ahmedabad), Governor of Andhra Pradesh since April 11, 1968. *b.* Oct. 23, 1898; *Educ.*: Bulsar, Bai Avabai High School; Wilson Coll., Bombay. Joined the N. C. Movement, 1920; Gen. Secy. Textile Labour Assoc., Ahmedabad; elected M.L.A., Bombay, 1937; elected to the Constituent Assembly, 1946; was Vice-Chairman, B.P.C.C.; member, A.I.C.C. and Congress Wkg. Cttee. for several years; Board of Trade, New Delhi; National Defence Council, Govt. of India; founder of the I.N.T.U.C., 1947 and its first Gen. Secy.; was its Pres. successively for three years; Ex-Min. for Labour, Govt. of India; Chairman: Board of Dir., Oil India Ltd.; Public Sector Award Cttee.; member, High Powered Cttee. to assess progress of the khadi & village industries; visited China. *Address*: Raj Bhavan, Hyderabad; Textile Labour Assocn., Gandhi Majoor Sevalaya, Bhadra, Ahmedabad.

DESAI, Morarji Ranchhodji, B.A., M.P. (Lok Sabha). *b.* Feb. 29, 1896; *Educ.*: Bulsar, Bulsar Dist., Gujarat; Wilson Coll., Bombay. Entered Provincial Civil Service of the Govt. of Bombay, 1918; resigned to join the C.D. Movement, 1930, and was convicted, 1930-34; Secy., Gujarat P.C.C., 1931-37 and 1939-46; Min. for Revenue, Co-op., Agr. and Forests, Bombay, 1937-39; convicted, 1940-41 and detained in prison, 1942-45; Min. for Home and Revenue, Bombay, 1946-52; Chief Min. of Bombay, 1952-56; Min. for Commerce and Industry, Govt. of India, 1956-58; resigned the Ministership to do party work, Aug. 1963. Treasurer, A.I.C.C., 1950-58; Hon. Fellow, Coll. of Physicians and Surgeons, Bombay, 1956; Hon. Doctor of Laws, Karnatak Univ., 1957; in connection with foreign aid to India, visited London, Washington, New York, Montreal, 1958, France, Switzerland, U.K., U.S.A. and Japan, 1959, Yugoslavia, Poland, Czechoslovakia, West Germany, the Soviet Union and Egypt, 1960; attended the Commonwealth Fin. Ministers' Cfee. in Lond., 1959 & '60; attended the annual meetings of the World Bank and I.M.F. to discuss the prospects of American assistance for India's Third Plan, Sept.-Oct. 1960; went on a three-week tour to capitals of Europe *viz.*, Brussels, Bonn, Geneva, Paris and Rome to mobilise foreign assistance for the Third Five Year Plan, July 1962; again visited Washington, Ottawa and Tokyo for aid for the eco. devpt. in India, Sept.-Oct. 1962; Union Fin. Min., 1958-63; Chairman Adm. Reforms Commn., Govt. of

India, Jan. 1966-March 1967; went on a month long foreign tour to London, Montreal, Washington, Rio de Janeiro, Port of Spain, Paris and Bonn, Sept.-Oct. 1967; went on a week's goodwill visit to Iran, July 1968; attended the Commonwealth Finance Ministers' Cfee. in London as also the Annual meetings of the World Bank/I.M.F. in Washington, Sept.-Oct. 1968; Chancellor, Gujarat Vidyapeeth, Ahmedabad: Chairman: Navjivan Trust; All-India Prohibition Council; Adv. Board of Hindustani Prachar Sabha; The Collected Works of Mahatma Gandhi; Trustee: Gandhi Smarak Nidhi; Gandhi Peace Foundation; Kasturba Trust: associated with various other constructive and cultural orgs.; elected to the Lok Sabha from Surat, 1967; Dy. Prime Minister & Min. for Finance, Govt. of India, 1967-69. *Publication*: *My View* (1966). *Address*: Duplex Road, New Delhi.

DESAI, Ranjit Ramchandra, Sahitya Acadami Award 1964, Marathi short story writer. *b.* April 8, 1928; *Educ.*: Vidyapith, J. C. H. High School, Kolhapur, Rajaram Coll., Kolhapur. Has introduced different forms of short stories in Marathi Literature such as rural, social, and historical stories. Historical novel *Swami* was awarded the Sahitya Akademi award, 1964. Presided over the 28th session of the Marathi Wangmaya Parishad, Baroda, 1965. *Publications*: Short Story Collections: *Rup Mahal*; *Madhumati*; *Kanav*. Jan. Novels: *Bari*; *Maza Gaon*; *Swami*. *Address*: Taluk Chandgad, Post Kowad, Dist. Kolhapur (Maharashtra).

DESHMUKH, Chintaman Dwarkanath, B.A. (Cantab). Bar-at-Law, Hon. Doctor of Laws by Univs. of: Princeton, New Jersey, and Leicester, U.K. (1963); Mysore, Osmania, Hyderabad, (1957); Hon. D.Sc. by Univs. of Calcutta (1957), Karnatak, Dharwar, (1963); Indian Statistical Instt., Calcutta (1965); Hon. Doctor of Letters by Univs. of Annamalai (1957), Allahabad (1958); Hon. D. Litt. by Univs. of Nagpur and Punjab (1959); Chairman, Adm. Staff Coll., Hyderabad, since Jan. 1960; Pres.: India International Centre since March 1959; Institute of Economic Growth, Delhi, since 1965; member, Bd. of Trustees of the U.N. Instt. for Trg. and Research, since 1965; elected Vice-Chairman, 1966; Pres., Indian Statistical Instt., 1946-64; Chairman, National Book Trust, 1957-Sept. 1960. *b.* Jan. 15, 1896; *Educ.*: Elphinstone Coll., Bombay & Jesus Coll., Cambridge; called to the Bar, Inner Temple in 1963. Entered the I.C.S. Nov. 1919; held important positions in the Govt. of India till he became Dy. Governor, Reserve Bank, 1941-43; Governor, 1943-49; Governor for India on I.M.F. & I.B.R.D., from 1946; Financial Rep. of India in Europe and America, 1949-50; member, Png. Commn., March 1950; Chairman, I.M.F. & I.B.R.D., Sept. 1950; M.P. and Union Min. of Fin., 1950-56; Chairman: Univ. Grants Commn., 1956-60; Indian Inst. of Public Adm., 1964, Vice-Chancellor, Delhi Univ., 1962-67. *Address*: 40, Lodi Estate, New Delhi 3.

DESHMUKH, Dr. Smt. Durgabai, M.A., B.L., Hon. Doctor of Laws by Andhra Univ. (1963), Founder Pres., Andhra Mahila Sabha, Madras & Hyderabad. Advocate, Supreme Court of India; Hon. Dir., Council for Social Devpt., India Intl. Centre, New Delhi. *b.* July 1910; *Educ.*: Banaras, Andhra and Madras Univs. Member, Constituent Assembly and Provisional Parliament of India 1946-52; practised as lawyer, 1942-52; Member: Png. Commn., 1952-53; Chairman: Central Social Welfare Board, 1953-62; National Cttee. on Girls' and Women's Edu., Govt. of India 1958-61; Editorial Cttee. for *Social Welfare in India* and *Social Legislation*; Editorial Board on *Encyclopaedia of Social Work in India*. *Address*: 40, Lodi Estate, New Delhi 3.

DESHPANDE, Atmaram Raoji, B.A. (Hons.), LL.B., Marathi Poet; Adv., Social Educ., Min of Educ., 1961-65; Vice-Pres., Indian Adult Educ. Assocn.; member, Exec. Council of Sahitya Akademi. *b.* Sept. 11, 1901; *Educ.*: Hindu High School, Amravati; Fergusson Coll., Poona. Lawyer (1925-28); Civil Judge & Dist. & Sessions Judge 1920-47; UNESCO Fellowship (1956); Dir., National Fundamental Educ. Centre, 1956-61; Chairman, Cttee. of Literary Experts, UNESCO, Paris, 1962; led Indian Literacy delegation to U.S.S.R., 1963; Pres. All India Adult Education Council (1967). *Publications*: Three collections of poems besides two longer poems; several articles on literary criticism & social education. *Address*: 88, West Park, Dhantoli, Nagpur 1.

DESHPANDE, Purushottam Laxman, M.A., LL.B., Padma Shri (1966), Sangeet Natak Akademi Award (1967), Writer, Actor & Producer of Plays in Marathi and a distinguished speaker. *b.* Nov. 8, 1919; *Educ.*: Bombay & Poona. Wrote scripts, acted & directed music in Marathi films; was the first Chief Producer, A.I.R. Television, Delhi; was trained in the B.B.C.; did one-man shows on the Marathi stage namely *Bata-tyachi Chawl*, etc.; estd. Pu. La. Deshpande Foundation, to promote cultural & national activities; *Vyakti Ani Valli*, won the Sahitya Akademi award, 1966. *Publications*: Plays, travellogues, collection of humorous articles & sketches. *Address*: Mukhtangan, 15/B, Sarojini Nadiu Road, Santa Cruz West, Bombay 54.

DESHPANDE, Vishnu Ghanashyam, M.A., M.L.C., Morris Memorial Fellow of Nagpur Univ. (1934-37), Sir Arthur Blenner Hasset Medalist (Nagpur Univ.), Ex-Pres., Hindu Mahasabha; Editor, *Free Hindustan*. *b.* Nov. 17, 1911; *Educ.*: Nagpur. Joined the Hindu Mahasabha, 1939; elected Gen. Secy.: M.P. Hindu Mahasabha, 1939; All-India Hindu Mahasabha 1940; imprisoned several times for activities in the Hindu Mahasabha, and Jammu Movement; elected to the Lok Sabha 1952; participated in Samyukta Maharashtra movement; was the Chief Whip of the National Democratic Party in Lok Sabha; was Editor, *Adesh and Hindu Outlook*; joined Bharatiya Jan Sangh, Dec. 1966; elected M.L.C. Maharashtra from Vidarbha Graduate Const., 1968. *Address*: P. O. Mehkar, Buldana District, Maharashtra.

DEV, Col. Velloor Vasu, M.A., Chairman, Coir Board and Marine Products Export Promotion Council, since May 1968. *b.* Aug. 2, 1910; *Educ.*: Presidency Coll., Madras. Served in the Army till 1956; visited several countries in Europe as Member-Secy., Indian Trade Delegation; Trade Commissioner, British East Africa and Central Africa, 1959; Deputy Secy., Min. of Commerce; elected Vice-Pres., International Shrimp Council, Washington, June 1968; visited the U.S., Mexico, U.K. and Continental countries as leader, Indian Seafood Delegation, 1968. *Address*: Chairman, Coir Board, M. G. Road, Ernakulam, Cochin 16.

DEVARAJALU, G. K., a leading industrialist; Chairman, Indian Cotton Mills Federation, 1965-67. *b.* Dec. 7, 1912. Mg. Agent & Dir.: Lakshmi Machine Works Ltd.; Lakshmi Mills Co. Ltd., Coimbatore Cotton Mills Ltd.; Mg. Dir., South India Viscose Ltd.; Dir.: New India Assurance Co., Bombay, Dhrangadhra Chemicals Ltd., Bombay, Premier Mills (CBE) Ltd., Vijayeswari Textiles Ltd., & other Cos.; Mg. Trustee, G. Kuppuswamy Naidu Memorial Trust for Edu. & Medical Relief; Chairman: South India Textile Research Assoc., Coimbatore; Exec. Cttee. member, F.I.C.C. & I., New Delhi; widely travelled in Europe, America and Far East countries. *Address*: 'Shell House', Avanashi Road, Coimbatore.

DEVI, Smt. Bindhya Basini, Musician; Folk Music Producer, A.I.R., Patna. *b.* 1918 at Muzaffarpur; *Educ.*: Visharad, Hindi Univ., Aligarh; Sahitya Bhushan, Hindi Vidyapeeth, Deogarh; Bhatkhande Sangeeth Vidyapith, Lucknow. A pioneer of folk songs, folk dance and folk drama of Bihar; started composing and research of folk songs, ballets and dances of Bihar from 1935; elected member, Gen. Council, Sangeet Natak Akademi, New Delhi, for seven years; awarded "Lok Sangeet Vishardha" by the late Acharya Seopujan Sahay. *Publications*: *Manaw*; *Lok Sangeet Sagar*; *Vaishali Mahima*; several folk stories. *Address*: C/o Vindhya Kala Mandir, Kankarbagh, Patna 7.

DHADDA, Siddha Raj, M.A. (Pol.), LL.B., Social Worker; Writer and Journalist; Pres., Rajasthan Samagra Seva Sangh (Sarvodaya Organisation); Trustee, Sarva Seva Sangh; Vice-Chairman, Rajasthan Sevak Sangh. *b.* Feb. 1909; *Educ.*: Maharaja's Coll., Jaipur; Canning Coll., Lucknow Univ. and the Allahabad Univ. Secy.: Indian Chamber of Commerce, Calcutta; Indian Sugar Mills Assocn. and various other affiliated bodies, 1934-42; has been connected with various pol., social and cultural orgs.; courted jail in freedom movement; Founder and Chief Editor, *Daily Lokvani* from Jaipur, 1946-49; Gen. Sec., Rajputana P.C.C., 1947-48; Min. for Industries and Commerce, Rajasthan, 1949-51; has been in the Sarvodaya Movement since 1951. *Publications*: *Decentralised Economic Order* (Hindi); contributes to English, Hindi periodicals. *Address*: Chaura Rasta, Jaipur 3.

DHAMIJA, Jagan Nath, M.A. (Cantab.), Barrister-at-Law, Ambassador to the Netherlands. *b.* Aug. 17, 1913; *Educ.*: Emmanuel Coll., Cambridge; Lincoln's Inn, London. In the political deptt., Govt. of India, 1944-49; Secy. and Adviser, Indian Delegation to U.N. General Assembly Session, Sept. 1948; First Secy., Indian High Commn. in Australia, 1949-52; was Acting High Commr.; Officer on Spl. Duty., Ext. Affairs Min., 1952; Dy. Secy., Min. of States, (later Min. of Home Affairs), 1953-58; Commr. for India in Mauritius, 1958-60; Amb. to Afghanistan, 1960-64; Chief of Protocol and Conlfr. Gen. of Emigration, Govt. of India, Min. of Ext. Affairs, 1964-66; Amb. to Czechoslovakia, 1966-69. *Address*: C/o Ministry of External Affairs, Govt. of India, New Delhi.

DHARA, Sushil Kumar, Minister for Commerce and Industries including Agro-Industry Corporation, West Bengal, since Feb. 1969. *b.* 1910. Entered politics early in life; took part in the Salt Act movement and in the Vidyut Bahini formed in Tamluk in 1942 under the aegis of Sri Ajoy Kumar Mukherjee; has been a member of the Assembly, since 1957; Minister for Commerce, Industries and Community Development, U.F. Govt. in West Bengal, 1967-68. *Address*: Writers' Buildings, Calcutta.

DHARMAKUMARSINHJI, R. S., F.Z.S., M.B.O.U., M.Z.S., Vice-Chairman and Regional Secy., Indian Board for Wild Life. *b.* April, 1917; *Educ.*: Harrow (Public School); Samaldas Coll., Bhavnagar. Spl. Officer on duty, Min. of States, Govt. of India, to make rapid survey of wild life and game in the State Unions, 1950; Vice-Chairman, I.B.W.L., 1952; Wild Life Preservation Officer, Bombay, 1955; elected Pres., Bombay Aquarium Soc., 1957; member, Natural History Sect. Cttee., Prince of Wales Museum. *Publications*: *Birds of Saurashtra*, 1954; won 1st prize for *A Field Guide to Big Game Census in India*. *Address*: 26, Lotus Court, Jamshedji Tata Road, Bombay 1.

DHEBAR, Uchhrangral Navalshanker, Chairman, Khadi & Village Industries Commn. since 1963; Ex-Pres., Indian National Congress; High Court Pleader. *b.* Sept. 21, 1905; *Educ.*: Rajkot and Bombay. Practised as a lawyer in Rajkot, 1929-36; Secy., Gujarat P.C.C., 1945-47; imprisoned several times in the freedom movement; Chief Min., Saurashtra, 1948-54; elected Pres., Indian National Cong. for the 3rd term during the 63rd Session of Cong., Nov. 1957-Feb. 1959; Member, A.I.C.C., Wkg. Cttee., 1955-63; Chairman, Scheduled Areas & Scheduled Tribes Commn., 1960-61; M.P., 1962-63. *Address*: Irla Road, Bombay 56.

DIAS, Anthony Lancelot, B.A. (Econ. Hons.), Bombay, B.Sc., (Econ.) London, I.C.S., Secy., Dept. of Food Min. of Food & Agr., since Aug. 1964; Chairman: Modern Bakeries (India) Ltd.; Central Warehousing Corpn. *b.* March 13, 1910; *Educ.*: Deccan Coll., Poona; London School of Economics, London; Magdalene Coll., Cambridge; Dakshina Fellow, Gobden Club Medal (Bombay Univ.), The Hugh Lewis Prize (London School of Economics). Entered I.C.S., 1933, served in various capacities as Asstt. Collr., Collr., Dir. of Land Records & Settlement Commr., Secy. & Supply Commr., Food & Civil Supplies Deptt., 1947-52; Secy., Edu. Deptt. 1952-55; Secy., Agr. Deptt., 1955-57; Home Deptt., 1957-60; Chairman, Bombay Port Trust, 1960-64. *Address*: New Delhi.

DINKAR, Ramdhari Sinha, B.A. (Patna), D. Lit. (H. Causa), 1962, Vidya Vachaspati (H. Causa), 1965; Padma Bhushan (1959), Vice-Chancellor, Bhagalpur Univ., 1964-65; Hindi Adv. to the Union Govt.; Hindi Poet. *b.* Sept. 23, 1908. Prof. of Hindi, 1950-52; Congress M.P., Rajya Sabha, 1952-64; Sahitya Akademi Award (1960) for *Sanskriti ke char Adhyay*; represented Indian poetry in the Intn'l. Cfee. of Poets, Poland, 1955; visited China at the invitation of the Writers' Union of China 1957; visited U.S.S.R., 1961; led a cultural delegation to Mauritius, 1967. *Publications*: 26 volumes of Hindi poems and 14 volumes of prose besides some books for children. *Address*: 5, Safdarjang Lane, New Delhi.

DIVAKARAN,* Thandanthazhikathu Krishnan, Minister for Works, Kerala State. *b.* Dec. 5, 1920; *Educ.*: Quilon. Became a trade unionist at an early age; was an active worker of the Travancore State Congress; was member, All Travancore Congress Cttee.; courted jail in freedom movement; Founder-Member, Kerala Socialist Party; elected M.L.A., Travancore-Cochin, 1952; was Dy. Leader of the Opposition; was member, Central Exec., R.S.P.; was Chairman, Estimates Cttee., Travancore-Cochin Leg. Assembly; was member, Planning Advisory Board and Minimum Wages Advisory Board; was member and Vice-Chairman, Coir Board; Chairman, Quilon Municipality; has visited U.S.S.R. and East Germany as rep. of the U.T.U.C. *Address*: Santhalayam, Pattathanam, Quilon.

DIVAN, Gautam Ramanlal, B.Com., A.C.A., Arjuna Award (1965), a leading Table-Tennis Player; Partner, Chandabhoj & Jassoobhoj, Chartered Accountants, Bombay. *b.* July 22, 1940; *Educ.*: St. Xavier's High School, & Sydenham Coll. of Commerce & Economics, Bombay. National Champion in Table-Tennis 1956-59, 1964 and 1965; rep. India in Intn'l. Competitions, 1957-67; connected with Org. of Table-Tennis in Maharashtra since 1961; is Treasurer, Maharashtra State Table-Tennis Assoc. *Address*: 22, Alexandra Road, Bombay-7.

DIWAKAR, Ranganath Ramachandra, M.A., Chairman: Gandhi Smarak Nidhi, since Sept. 1957; Gandhi Peace Foundation since 1959; Editorial Cttee.

Karnatak Through the Ages; Governor of Bihar (1952-57). *b.* Sept. 30, 1894 in Dharwar; *Educ.*: Belgaum, Hubli, Poona and Bombay. Joined N.C. Movement in 1921; Pres., K.P.C.C., 1930-34; often jailed in the freedom movement; started People's Educ. Trust at Hubli, 1935; member, P.E.N.; author of numerous books (inc. translations) in Kannada, Hindi and English; was M.P.; was member, A.I.C.C.; Union Min. of State, Information and Broadcasting 1948-52; Sole Trustee, P.E. Trust; Editor, *Samyukta Karnatak* (daily), *Kasturi* (monthly). *Publications*: (Eng.) *Satyagraha: History and Technique*; *Glimpses of Gandhiji*; *Upanishads in Story and Dialogue*; *Satyagraha Pathway to Peace*; *Mahayogi*; *Paramahansa Sri Ramkrishna*; etc. *Address*: 2, Residency Road, Bangalore 25.

DOGRA, Pandit Girdhari Lal, B.A., LL.B., Min. for Revenue, Relief and Rehabilitation, Jammu and Kashmir, since March 1967. *b.* July 1915; *Educ.*: Hindu Sabha Coll., Amritsar; Law Coll., Lahore. Advocate, Jammu and Kashmir High Court and Supreme Court of India; took prominent part in the Jammu & Kashmir National Conference movement; was Emergency Officer, Kathua Dist. during the Tribal raid from Pakistan into Kashmir in 1947; elected member, J. & K. Constituent Assembly, 1951; Pres., Provincial National Conference, Jammu; Chairman of the Drafting Cttee. of the Constituent Assembly of State; Min., J. & K. State, 1947-57 & 1961-63. Minister for Finance & Industry, Jammu-Kashmir, 1964-67. *Address*: Srinagar.

DRAVID, Vyanktesh Vishnu, B.Sc., Ex-Pres., I.N.T.U.C.; Ex-Min., Madhya Pradesh. *b.* Aug. 10, 1913; *Educ.*: Victoria Coll., Gwalior. Took part in the labour movement in Indore and Ahmedabad with Mr. Gulzarilal Nanda; jailed in the Freedom Movement; was Min. for Labour and Local Self-Govt. in Indore State; Min. for Commerce, Industries and Labour, M.B., 1948; Leader, Indian Delegation to Geneva, 1959; elected M.L.A., in the Gen. Elections; was Devpt. and Labour Min., M.B.; Min. for Agr., Chambal Project, Labour and Housing, M.P., 1956; resigned in Feb. 1964 to undertake the organisational work of INTUC; Pres.: Indore Mill Mazdoor Sangh, M.P.; I.N.T.U.C.; Vice Pres.: Indian National Textile Workers' Federation; I.N.T.U.C. *Address*: Shram Shibir, Indore.

DURAI SWAMI, Dr. Puliur Krishnaswami, M.B.B.S. (Madras), M.S. (Madras), M. Ch. Orth. (Liverpool), F.R.C.S. (England), Ph.D. (Liverpool), Padma Bhushan (1966), Director-General of Health Services, Govt. of India, since June 14, 1968. *b.* April 23, 1912; *Educ.*: Madras and U.K. Served in the Govt. hospitals in Madras, 1940-43 and in military hospitals during World War II, 1943-47; with Johns Hopkins Univ., U.S.A., 1951-53; Adviser in Rehab., D.G. of Health Services, 1964-67; Senior Dy. D.G., April-Nov. 1967; Addl. D.G., 1967-68; recipient of several honours like Founder Fellow, Indian Academy of Medical Sciences, 1961; Robert Jones Research Fellowship by the Univ. of Liverpool (1949) and four other honours for his original research on congenital skeletal defects; member, American Orthopaedic Assoc. (1963); Key to the City of Columbia (1962). *Address*: Nirman Bhawan, 4th floor, Room No. 446, New Delhi 11.

DUTT, Rabindra Chandra, B.A. (Econ.), (Hons.) (Calcutta), Econ. Tripos (Cantab.), I.C.S., Secy., Min. of Steel & Heavy Engineering, Govt. of India, since Feb. 1969. *b.* Nov. 5, 1912; *Educ.*: Presidency Coll., Calcutta; Corpus Christi Coll., Cambridge; passed I.C.S., 1936. Held several posts in West Bengal, 1937-47; Dy. Secy., Home Min., Govt. of India, 1947-53; Dy. Commsr., Jalpaiguri, 1950. Jt. Secy., Home Min., from 1953; Esta-

* Submitted his resignation from the Ministry on October 17, 1969.

blishment Officer, Govt. of India, 1956-58; Mg. Dir., and subsequently Chairman, National Coal Devpt. Corp., 1959-64; Secy., Min. of Fin., Deptt. of Company Affairs & Ins., 1964-65, Rev. & Ins. since Nov. 10, 1965; Secy., Rev. and Ins., Min. of Fin. and Dir. Gen., Bureau of Public Enterprises, Govt. of India, 1966-67; Secy., Min. of Tourism & Civil Aviation, Govt. of India, 1967-69. Address: Sardar Patel Bhavan, Parliament St., New Delhi.

DUTTA, Sarat Kumar, B.A. (Cal.), B.Sc. (Lond.), Barrister-at-Law, Chief Justice, Assam and Nagaland High Court, since March 7, 1968. b. Jan. 31, 1908; Educ.: Dibrugarh Govt. High School; Presidency Coll., Calcutta; Univ. Coll., London; called to the Bar from Middle Temple, London, 1933. Practised in Calcutta High Court, 1933-37; Principal, Govt. Law Coll., Gauhati, 1937-48; Dean, Faculty of Law, Gauhati Univ., 1948-50; Legal Remembrancer and Secy., Leg. and Judicial Deptts., Govt. of Assam, 1950-55; Dist. and Sessions Judge, 1955-61; member, Court and Exec. Council, Gauhati Univ., 1948-61; Judge, Assam and Nagaland High Court 1961-68. Publications: *Prolegomena to the New Reforms*; Edited (a) History of Assam, (b). History of Jayantia. Address: Gauhati (Assam).

DVORAK, H.E. Mr. Richard, Ambassador of Czechoslovakia in India, since Sept. 1967. b. Dec. 28, 1913; Educ.: Academy of Commerce & Free School of Political Science, Prague. Worked in the Czech Bank, Prague; imprisoned during the period of the Second World War in various German concentration camps for his anti-Hitlerite activities; elected Chairman, Dist. National Cttee., West Bohemia, 1946; Dy. Minister of Foreign Trade, 1949-52; Minister of Foreign Trade, 1952-59; Ambassador to Moscow, 1959-63; Minister of Finance, 1963-67; Member of Parliament, 1948-67; speaks Russian, English, French and German; has won various awards and decorations. Address: 45-46, Sunder Nagar, New Delhi.

DWARKA: His Holiness the Jagadguru Shankaracharya Swami Shri Abhinava Sachchidanand Teerthji Maharaj of Sharada Peeth, of. Is an outstanding spiritual Head of western India. b. Sept. 25, 1919; Educ.: Studied privately. Took holy orders, 1934; installed at Dwarka on the holy seat of Shri Shankaracharya of western India, June 20, 1945; is a scholar and linguist; visited Holy Himalayan high peaks and Holy Mount Kailas and sacred lake Mansarovar in Tibet; Pres., All-India Dharma Sangh Cfce., several times; recognised by the Govt. as the Shankaracharya of Dwarka and a Primate of Hinduism; Founder and Pres. of: Shri Sharada Peeth Vidyasabha; Dwarka-Samsthan-Adhyatma Kendra at Bangalore; inaugurated IVth & Vth International Yoga Conventions at Gondia (1967) & Raigarh, 1968; is a patron, Vishwa Hindu Parishad. Publications: Several books in Gujarati, English, Kannada, Sanskrit and Hindi; "Nav-Bharati" a Gujarati monthly. Address: Dwarka (W. Rly.).

DWIVEDI, Surendranath, M.P. (Lok Sabha) and leader of the P.S.P. group in Parliament. b. Feb. 11, 1913. Joined the Congress 1930; courted jail in the freedom movement; Founder member, Congress Socialist Party, 1934; a working journalist, 1934-42; Founder and editor for several years of Oriya weekly 'Krishak'; elected Secy., Cuttack D.C.C., 1940; member, A.I.C.C., 1940-48; General Secy., Utkal P.C.C., 1946-47; resigned from Congress, 1948; elected member, National Exec., Socialist Party, 1947 and of P.S.P. every year; was Provincial Secy. and Chairman, Utkal P.S.P. and S.P.; member, Rajya Sabha, 1952-56; Dy. Chairman, P.S.P., 1958-62; member, Panel of Chairmen of the Lok Sabha; delegate, Inter-Parliamentary Union Confce., Lima, Peru (1968).

Publications: Oriya translations of Mr. Nehru's Autobiography and Glimpses of World History; *National Movement in India*; *Asia on the Path of Socialism*; *Political Corruption in India*, etc. Address: Telengalazar, Cuttack 1, Orissa; 21, Canning Lane, New Delhi.

ERING, D., I.F.A.S., Dy. Min. for Food and Agriculture, Community Devpt. & Coopn., Govt. of India, since March 1967. b. 1930; Educ.: Sadiya Govt. H.E. School and Cotton Coll., Gauhati, Assam. Language Officer, 1952-54; A.P.O. II, 1954-60; A.P.O. I in cadre of the Indian Frontier Adm. Service, 1960-61; Patron & Patron in-Chief associated with a number of regd. social/cultural orgs.; nominated M.P., Lok Sabha, March 1961; Parl. Secy., Min. of Ext. Affairs, till Oct. 1965; Exec. Chairman, Indian Federation of U.N. Assoc., 1966-67; Parly. Secy., Min. of Home Affairs, Govt. of India, Nov. 1965-67. Address: P.O. Pasighat, N.E.F.A.; 25, Ashoka Road, New Delhi.

ESWARAN, Kulathu Iyer, Business man. b. March 8, 1909; Educ.: Tirthapathi High School, Ambasamudram. Chairman and Managing Dir.: Hackbridge-Hewittie and Easun Ltd.; Eswaran & Sons Engineers Pvt. Ltd.; Chairman & Director, Easun Products of India P. Ltd.; Director, Easun Engg. Co. Ltd., Madras Refineries Ltd., etc.; Vice-Pres., Madras Productivity Council, Hindustan Chamber of Commerce, Madras; Regional Dy. Chairman, Engg. Export Promotion Council (S. Region); Member: Development Council for Heavy Electrical Industries; Industrial Development Sub-Cttee., F.I.C.C.I.; Labour Advisory Group of Employers' Reps., Govt. of Madras; Pres., Hindustan Chamber of Commerce, Madras, 1969-70. Address: Residence: "Sudhama", Sir Desikachari Road, Madras 4; Office: 5-7, Second Line Beach, Madras 1.

GADE, Hari Ambadas, B.Sc., B.T., G.D. Art, A.M., Painter, art educationist. b. Aug. 15, 1917; Educ.: Nagpur and Bombay. Held several one man's exhibitions in imp. art centres. Went on a study tour to European countries, 1955-56; represented in public and private collections in India and abroad. Address: 70, T. Central Avenue, Chembur, Bombay 71; Central Institute of Education, Delhi 7.

GADGIL, Dr. Dhananjay Ramachandra, M.A., M. Litt. (Cantab.), D.Litt., Dy. Chairman, Planning Commission, since Sept. 1, 1967. b. 1901; Educ.: Patwardhan High School, Nagpur & Queen's Coll., Cambridge. Dir., Gokhale Inst. of Politics & Economics from 1930; Chairman, Agri. Fin. Sub-Cttee., Govt. of India, 1944-45; member: National Income Cttee., 1950-52; U.N. Group on Devpt. of Underdeveloped Countries, 1951; Cttee. of Direction, Rural Credit Survey, 1951-54; Pres., Indian Eco. Assoc., 1940; Chairman: Programme Cttee., Intl. Instt. of Pacific Relations, 1950-54; Maharashtra State Co-op. Bank Ltd.; member: Central Board of Dirs., State Bank of India; Board of Directors, Agri. Re-Finance Corp. of India; Pres., National Fed. of Sugar Co-op. Factories, National Co-op. Union of India; member: Board of Trade; Research Programmes Cttee., Plng. Commission; M.P. (Rajya Sabha) till Aug. 1967; Vice-Chancellor, Poona Univ., 1966-67. Publications: 24 books & many articles & papers; *Salaries of Public Officials in India* (1931); *Regulation of Wages & other problems of Industrial Labour in India* (Reprint 1954); *Federating India* (1945); *The Federal Problem in India* (1947). Address: 129-B, Erandavana, Poona 4.

GADGIL, Gangadhar, M.A., Marathi Writer; Principal and Prof. of Economics, Narsee Monjee Coll., Bombay. b. Aug. 25, 1923; Educ.: Bombay Univ., Harvard and Stanford Univs. under Rockefeller Foundation Fellowship, 1957. Awarded first prize in the Marathi

short story competition held under the auspices of the *New York Herald Tribune*; awarded prizes for his books *Talavatalen Chandane*, *Ole Unha* and *Sata Samudra Palikade* by the Bombay Govt., 1956, 1958, 1960. *Publications*: Plays: *Vedyancha Choukon*; *Jyotsna ani Jyoti*; Novel: *Lileeche Phool*; Travelogue: *Gopuranchya Pradeshat*; Collections of short stories: *Kadoo ani Goad*; *Talavatalen Chandane*; *Bandoo and ten others*; Literary Criticism: *Khadak ani Panee*; *Sahityache Manadanda*. Address: Principal's Quarters, Narsee Monjee College of Commerce & Economics, Vile Parle (West), Bombay 56 AS.

GAEKWAD OF BARODA : Lt. Col. His Highness Maharaja Fatesingh Rao, Furzand-I-Khas-I-Dowlat -I-Englishia, Sena Khas Khel Shamsheer Bahadur, Minister for Health, Fisheries and Jails, Government of Gujarat since March 1967; Chancellor, Maharaja Sayajirao University, Baroda, since 1951. b. April 2, 1930; *Educ.*: Privately; Member of Parliament (Lok Sabha) 1957-67; Parliamentary Secretary to Defence Minister, 1957-62; Member: Indian Board of Wild Life; Executive Committee, Congress Party in Parliament 1962-67; Public Accounts Cttee. in Parliament 1963-64; Chairman: Board of Governors, National Institute of Sports 1962-63; Baroda Rayon Corporation 1956-66; President, Board of Control for Cricket in India, 1963-66; The National Rifle Association of India; World Wild Life Fund, Switzerland. Address: Laxmi Vilas Palace, Baroda; Sachivalaya, Ahmedabad 15.

GAJENDRAGADKAR, Dr. Pralhad Balacharya, M.A., LL.B., LL.D., Vice-Chancellor, Bombay Univ., since March 21, 1966. b. March 16, 1901. *Educ.*: Bombay Univ.; Dakshina Fellow in Deccan Coll., 1922-24; Jhala Vendant Prize and Bhagwandas Purshottamdas Sanskrit Scholarship 1924. Dean of Law Faculty, Bombay Univ.; joined Bombay Appellate Side Bar, 1926; Chairman, Bank Award Commn., 1955; Judge, Bombay High Court, 1945-57; Judge, Supreme Court, 1957-64; delivered lectures mostly on legal topics and the Indian Constitution during visits to U.S.A., U.K., U.S.S.R., etc., 1965. Chief Justice of India, 1964-66; Chairman: Dearness Allowance Commn., 1966-67; J & K Commission of Inquiry, 1967-68; PTI; Board of Visitors, J.J. Group of Hospitals; National Commn. on Labour; nominated member, U.G.C.; Pres., The Asiatic Society of Bombay; Mem., National Integration Council; delivered Patel Memorial Lecture Series — 'Kashmir-Retrospect and Prospect', 1966; Nagpur Univ. Extn. lectures on 'Jawaharlal Nehru — A Glimpse of the Man and His Teachings, 1967'; delivered the Gandhi Memorial Lectures at Nairobi and the Constitution of India, 1968. *Publications*: Sanskrit Text of Nanda Pandit's *Dattak Mimamsa* and its English Translation; *Law, Liberty & Social Justice*; many other articles and forewords. Address: Bombay University, Bombay 1.

GANDHI, Smt. Indira, Prime Minister of India, since Jan. 24, 1966, also incharge of Planning and Atomic Energy since Sept. 1967 and Finance, since July 19, 1969; is the first woman Prime Min. of the largest democracy in the world and the second Prime Minister in the world. b. Nov. 19, 1917, at Anand Bhavan, Allahabad; *Educ.*: Allahabad, Poona, Bombay, Visva Bharati Univ., Santiniketan, Switzerland and Somerville Coll., Oxford; learnt world history through letters written to her by her father. Her favourite occupation as a very small child of three in 1920 was to deliver thunderous speeches to the servants, standing on a high table; at four attended her first Congress session, 1921; at the age of 12, organised a Charkha Sangh & "Vanar Sena" of young boys and girls to help the C.D. movement in many

ways and to promote it with a strong young base, 1930; has been active in student movements in England and India; took an active part in the India League headed by Mr. V. K. Krishna Menon; became a member of the Congress, 1938; was actively associated with the independence movement; courted imprisonment with her husband in Naini Central Prison during the 1942 "Quit India" movement soon after her marriage; has been active in elections and village mass contact work with spl. reference to women; worked under Mahatma Gandhi's direction in the riot affected areas of Delhi 1947; after independence in 1947, became Jawaharlal Nehru's hostess and later, his closest political aide; accompanied her father on his official visits to several countries; had the opportunity to meet all the world's leading personalities; went on her own on a goodwill mission to several African countries and also to the Soviet Union; became member, Wkg. Cttee., A.I.C.C., 1955; Pres., Women's Deptt., A.I.C.C.; member, Central Election Cttee. and Central Parly. Board of the A.I.C.C.; is connected with several welfare organisations; member: Exec. Board of UNESCO; Central Adv. Board of Edu.; various Trusts and Hospital Cttees.; mountaineering Instt.; Pres., Bal Bhavan sponsored by the Union Ministry of Edu.; Pres., Indian Council for Child Welfare; has founded a co-op. centre in Delhi for the welfare of women and children; Pres. and Founder: Bal Sahyog, New Delhi; Kamala Nehru Vidyalaya, Allahabad; Vice-Pres., Intl. Union for Child Welfare; elected Pres., Indian National Cong., Feb. 1959; was the third in three generations of the Nehru family to succeed to the *gadi* of the national org.; was the fourth woman in the country elected to this high office; as Pres., Indian National Cong., played an imp. role in the bifurcation of bilingual Bombay into Maharashtra and Gujarat; it was due to her initiative that the first Communist Party Govt. in Kerala was pulled down from office on July 1, 1959; her extensive tour in the country as Pres. of the Cong. and as Chairman of the National Integration Cttee. brought her into intimate touch with the masses and their problems; during the Chinese aggression, flew to the border areas and addressed public meetings there; kept up the morale of the jawans and the public in those areas; as Chairman, Citizens' Central Council, formed after the Chinese attack, has had an opportunity of assessing national sentiments; visited the U.S.A. shortly before her father's death in May 1964 and met Pres. Johnson; Min. for Information and Broadcasting, Govt. of India, June 1964-Jan. 24, 1966; apptd. member, Emergency Cttee. of the Central Cabinet and National Defence Council, July 1964; elected to the Rajya Sabha unopposed from the U.P. Vidhan Sabha Constituency, Aug. 21, 1964; attended the Commonwealth P.M.'s Cfce., 1964; visited the U.K., Yugoslavia and U.S.S.R., Oct. 1964; Chairman, Third Intl. Film Festival Cttee., Jan. 8-21, 1965; Chairman, Sangeet Natak Akademi, since Dec. 14, 1965; received: Mother's Award, U.S.A., 1953; Yale Univ. Howland Memorial Prize, 1960; award for "her dedication to the freedom of communication in the world" was presented to her in Chicago by three leading professional journalism societies of the U.S., Jan. 30, 1965; awarded the "Isabella D'Este" prize for outstanding ability by the Italian Govt., Nov. 1965; Doctor of Literature (*honoris causa*) at the Agra Univ. Convocation, Dec. 4, 1965; Hon. Doctor of Law, Waseda Univ., Japan (1969); elected leader, Cong. Parly. Party, Jan. 19, 1966; went on a nine-day foreign tour that took her to four capitals, Paris, Washington, London and Moscow, 1966; Chancellor, Visvabharati Univ. for three years from April 1966; elected to the Lok Sabha from Rae Bareilly, Feb. 1967; after the 1967 General Elections, again elected

Leader, Cong. Parly. Party, March 12, 1967. Four-day State visit to Ceylon, Sept. 1967; participated in the 50th Oct. Revolution, Moscow, Nov. 1967; went on a 14-day tour of South-East Asia to Singapore, Australia, New Zealand, Malaysia, May-June 1968; went on a 28-day tour of South American Countries, Brazil, Uruguay, Argentina, Chile, Colombia, Venezuela, Trinidad and Tobago and Guiana, Sept.-Oct. 1968; attended the Commonwealth Prime Ministers' Conference, London, Jan. 1969; State visit to Japan, June-July 1969 and to Indonesia, July 1969. *Address*: 1, Safdarjung Road, New Delhi.

GANDHI, Pravinchandra Varjivan, Fellow, Indian Inst. of Bankers, Chairman, Dena Bank Ltd., since 1967; Pres., Indian National Cttee., International Chamber of Commerce. *b.* Aug. 25, 1922; *Educ.*: Elphinstone Coll., Bombay. Joined Dena Bank in 1939; Mg. Dir. Dena Bank Ltd., since 1943; member: All India Asscn. of Industries; Mg. Cttee.: Indian Banks Asscn. and Indian Merchants' Chamber; Adv. Council, Bankers' Trg. Coll.; Exec. Cttee.; FICC & I; Plng. Adv. Board, Gujarat State; Programme Adv. Cttee., AIR; Council member, Indian Inst. of Bankers; Dir.: Maharashtra State Fin. Corp'n.; Gujarat State Fin. Corp'n.; Agricultural Finance Corp'n. Ltd., Lalji Naranji Memorial Indian Merchants' Chamber Bldg. Trust; Bharatiya Vidya Bhavan; Dena Bank Ltd. Employees Provident Fund; Shri Pranlal Devkaran Nanjee Smarak Fund, etc.; Mg. Trustee, Swadeshi League Trust; Pres., Indian National Theatre. *Address*: Devkaran Nanjee Bldgs., 17, Horniman Circle, Fort, Bombay; 'Amelfi', Nepean Road, Bombay 6.

GANESAN, Sivaji, Padma Shri, 1966, a leading Cine Artiste. *b.* Oct. 1, 1928. Joined a Drama Troupe at the age of six; gradually estd. reputation as an actor; his outstanding performance in the role of Shivaji earned him the title Shivaji; his title role in the tamil picture 'Para Sakthi' brought him to the limelight; Best Actor Award at the Afro-Asian Film Festival, Cairo, 1960, for the picture, 'Veera Pandiya Kattabomman'; took part in the National Defence Documentaries (Anti-Chinese) 'Thai Nadu' (Motherland), 'Singa Natham Ketkuthu' (The Lion's roar is heard) and a full length picture 'Raktha-Thilakam'; represented India in the U.S. in the Cultural Exchange Programme; winner of the Best Actor Award from Cinema Kadir from 1958-63. *Address*: 11, Boag Road, T. Nagar, Madras 17.

GARGI, Balwant, M.A. (English Literature), Sahitya Akademi Award for his book 'Rang Manch' in Punjabi (1962), Writer. *b.* Dec. 4, 1916; *Educ.*: Forman Christian Coll., Lahore. Wrote his first play 'Loha Kut' (The Blacksmith) (1944) for a village theatre, and soon became a playwright; Founder-member, Delhi Art Theatre; his play 'Kesro' was staged in Poland (1955), in Germany — Ankelem Theatre (1958), in Tajikistan (1959), in Tokyo (1962-63); 'Sohni Mahiwal', a six-act song and dance packed play was staged by Gypsy Theatre, Moscow (1958-63); taught Indian Drama at the Univ. of Washington, 1964; Seattle for two yrs., where he directed 'The Little Clay Chart' in 1965 and his own play 'The Mango Tree' — *Kanak-di-Balli* — in 1966. *Publications*: *Loha Kut*, *Kanak-di-Balli*, *Kwari Teesi*, *Dhooni D.A.G.G.*, etc.; *Sketches: Nimm de Patte. English Theatre in India, Folk Theatre of India. Address*: 27, Curzon Road, New Delhi-1.

GARWARE, B. D., J.P., Industrialist. *b.* 1903. Started business, 1921; Chairman: Garware Plastics Pvt. Ltd.; Garware Motors & Engineers Pvt. Ltd.; Garware Fin. Corp'n. Pvt. Ltd.; Maharashtra State Fin. Corp'n., etc.; Dir.: State Bank of India, Central & Local Boards; Bajaj

Electricals Ltd.; Andhra Valley Power Supply Co. Ltd., etc.; Pres., Bombay Local Board, State Bank of India, since Dec. 1967; Member: Maharashtra State Industries Adv. Cttee.; Adv. Cttee., Indian Airlines; Board of L.I.C.; State Board for Export Promotion; travelled widely in Europe, the U.S.A., and the Far East. *Address*: Chowpatty Chambers, Sandhurst Bridge, Bombay 7.

GEORGE, H.E. Mr. James, B.A. (Hons.) (Toronto), High Commissioner for Canada in India. *b.* Sept. 14, 1918; *Educ.*: Upper Canada Coll., Toronto; Trinity Coll., Univ. of Toronto; Univ. of Genoble (France); Rhodes scholar for Ontario, 1940. Royal Canadian Naval Volunteer Reserve, 1940-45, retiring as Lt. Commr.; Deputy Permanent Rep. of Canada, U.N., 1951-55; Canadian High Commissioner, Ceylon, 1960-64. *Publications*: *The Far Distant Ships* (with J.J. Schull). *Address*: 4, Aurangzeb Road, New Delhi 11.

GHANDY, Sir Jehangir Jivaji, Kt., Cr., 1945, C.I.E., 1941, Padma Bhushan, 1958, Doctor of Laws (Honoris Causa) Columbia Univ., 1966, Dir., Tata Sons Pvt. Ltd., since 1959; Chairman: Indian Tube Co. Ltd.; Belpahar Refractories Ltd. *b.* Nov. 18, 1896; *Educ.*: Bombay Univ., B.S., School of Business, Columbia Univ. Carnegie Technological Instt. U.S.A. Member: Inst. of Engrs. (India) and Iron and Steel Inst. (Great Britain); Fellow, Inst. of Fuel (Great Britain); Chairman: Exec. Council, Central Fuel Research Instt.; Eastern Regional Cttee., All-India Council for Tech. Edu.; Metals Cttee., C.S.I.R.; All India Board of Tech. Studies in Management; Vice-Pres., The Indian Standards Inst.; member: Governing Body, C.S.I.R.; Court of Governors, Adm. Staff Coll., India; Pres.: International Org. for Standardization, Jan. 1968. Associate Knight of the Venerable Order of St. John of Jerusalem; Hon. Col. in the Territorial Army. *Address*: TISCO, Ltd., Jamshedpur; 10, Office Road, Jamshedpur.

GHATAGE, Dr. Vishnu Madhav, M.Sc., D.Phil., FRAES, MIE, FASC, FNI, FAAIA, MAESI, C.E.; Padma Shri, Scientist; Gen. Manager, Hindustan Aeronautics Ltd., Bangalore, since 1967. *b.* Oct. 24, 1908; *Educ.*: Kaiser Wilhelm Instt., Göttingen, Germany. Prof. of Aeronautical Engg., Indian Instt. of Sc., 1942-47; Chief Designer HAL; indigenously designed, developed and productionised (i) HT-2 — Trainer Aircraft, (ii) Pushpak — Light Trainer Aircraft (iii) Krishak and (iv) "KIRAN"; also designed and developed a Turbojet Engine (HJE-2500) for the Jet Trainer; toured Europe, U.S.A. and Australia. *Publications*: *Model Versuche Über die gegenseitige Bewegung von Luftmassen verschiedener Temperaturen*, Dissertation Göttingen, 1936; *Research & Development in Aeronautical Industry and Role of High Performance Aircraft in Defence in Defence Sc. Journal*; *Ring Aerofoils and their possible use*; *Design and Manufacture of Aircraft in India. Address*: Bangalore 17; *Residence*: No. 27/1, Cunningham Road, Bangalore 1.

GHATE, Vithal Dattatray, M.A., B.T., T.D. (Lond.), Marathi writer; member, Sahitya Akademi, New Delhi. *b.* Jan. 18, 1895; *Educ.*: Holkar Coll., Indore; Christian Coll., Indore; S.T. Coll., Bombay; London Day Trg. Coll., London. Held imp. posts in the Edu. Deptt., Bombay, 1927-45; Dy. Dir. of Edu., Bombay State, 1946-49. *Publications*: *Dramatised History of Maharashtra in Marathi*, 1925; *People of many lands*, Marathi, Gujarati and Hindi, 1930; *Teaching of History*, English (O.U. Press), 1937; *Kanhi Mhatre Va Eka Mhatari*, Pen Portraits, 1936; *Pandhare Kes Hiravi Mane*, 1959; *Madhu-Madhav* (Collection of poems), 1924; *Divas Ase*

Hote, autobiography, 1961; *Yeshwantrao Holkar* (a drama 1964); *Baji and Daddy* (1964), Manogate, personal essays, 1966. Address: "Sushama", Deccan Gymkhana, Poona 4.

GHOSE, Santidev, Scholar in music and dance; Principal, Sangit-Bhavana & Head of the Deptt. of Tagore Music and Dance, Visva Bharati Univ., Santiniketan. b. May 7, 1910; *Educ.*: Visvabharati and abroad. Producer (Music Composer) for the Tagore Centenary Unit under the D.G., A.I.R., 1960-61; has been associated with A.I.R., Min. of Scientific Research and Cultural Affairs, Sangeet Natak Akademi and Sahitya Akademi, New Delhi, and several cultural orgs. in the country; visited Ceylon, Burma, Indonesia and U.S.S.R. to study the dance and music of those countries. *Publications*: *Rabindra Sangit*; *Java O Balir Nritya Git*; *Rupakar Nandalal*; *Bharatiya Gramin Sanskriti*; *Gramin Nritya O Natya*. Address: Visva Bharati, Santiniketan, W. Bengal.

GHOSH, Dr. Amlendra Narayan, M.Sc. (Cal.), D.Sc. (Munich), Director General, Indian Standards Institution, since Sept. 3, 1966. b. Jan. 10, 1911 at Mhow (M.P.); *Educ.*: Calcutta Univ.; Munich (Germany). Deputy Chief Assayer, H. M. Mint, Bombay, 1940-46; Research Metallurgist, Indian Standard Metal Co., Bombay, 1946-48; Dir., Metallurgical Research and Planning, Govt. of Burma, 1948-53; Dir., Govt. Test House, National Test House, Alipore, 1953-56; Dy. Dir.-General, I.S.I., 1956-66; Fellow, Institution of Chemists (India) since 1954; Member: Indian Institute of Metals, since 1954; Chemical Research Cttee., C.S.I.R., 1955-61; Exec. Cttee., Central Mines Research Station (Dhanbad) of C.S.I.R., 1959-62; travelled in Canada, Australia, Germany, France, Poland, Czechoslovakia, Greece, Switzerland, U.K., U.S.S.R., U.A.R., Thailand, Iran & Israel; is a linguist knowing Bengali, English, German and Hindi. Address: Director-General, Indian Standards Institution, Manak Bhavan, 9, Bahadur Shah Zafar Marg, New Delhi 1.

GHOSH, Atulya, Political Leader. b. Aug. 27, 1904, at Pathuriaghata in Calcutta. Joined the N.C. movement while a student; elected Asstt. Secy., Hooghly D.C.C., 1925; became a member, B.P.C.C., 1925; Secy., P.C.C., 1948-50; unanimously elected Pres., West Bengal P.C.C., 1950; became member, Congress Working Cttee., 1950-51; courted jail several times in the freedom movement; has been at the head of the State Congress organisation for a long time and member, Lok Sabha, 1952-67; was Chairman, Hooghly Dist. Board and Hooghly Dist. School Board for many years, Calcutta Blind School and the Bengal Deaf & Dumb Assoc.; is a voracious reader. *Publications*: Several books on Gandhian philosophy; occasionally contributes articles on socio-economic problems of the country in different papers and periodicals. Address: 83B, Karbak Tank Lane, Calcutta 6.

GHOSH, Benoy Bhushan, M.Sc., (Calcutta), Chairman, Calcutta Port Commr's. b. March 15, 1905; *Educ.*: Presidency Coll., Calcutta. Joined Indian Audit & Accounts Service, 1930; Fin. Deptt., Govt. of India, 1939; Jt. Secy., Min. of Defence 1947; Secy., Deptt. of Food, Union Min. of Food & Agr., 1956-62. Address: Calcutta Port Commissioners, Calcutta.

GHOSH, Principal Devaprasad, M.A., B.L., Political Leader. b. March 15, 1894; *Educ.*: Mitra Instt., Calcutta; Deoghar H. E. School; Braja Mohan Instt., Barisal; City Coll., Presidency Coll., and Ripon Law Coll., Calcutta; Fellow, Calcutta Univ. upto 1957. Advocate, Calcutta High Court; linguist, knows Bengali, Hindi, Sanskrit, English; German, French and Italian; member: Congress, 1915-22; Nationalist Party, 1923-32; Hindu

Mahasabha, 1933-51; Jansangh since its inception 1951; elected to the Rajya Sabha on Jan Sangh ticket, 1952; Pres., West Bengal Jan Sangh, 1955-67; Vice-Pres., Bharatiya Jan Sangh, 1955, 1960-63 and 1965; Pres., Bharatiya Jan Sangh, 1956-59 and 1963-64. *Publications*: Several books on Mathematics, literary and political subjects, e.g., *Shifting Scenes*; *Hindu Kon Pathe* (Whither Hindus?); *Tarunima Satara Vatsar Pare Bangla Bhasha O Banan* (Bengali language and spelling—incl. his famous exchange of letters with Poet Tagore); *Trairashik*. Address: 59-B, Upper Circular Road, Calcutta 9.

GHOSH, Krishnapada, Minister for Labour, West Bengal, since Feb. 1969. b. 1916. Has been in the forefront in the labour movement; later embraced Communism; has been a prominent figure among dock labourers; elected M.L.A., West Bengal, 1967; was Secy., Calcutta Dist. Cttee. of C.P.I. (M). Address: Writers' Buildings, Calcutta.

GHOSH,* Parimal, M.A., J.P., Minister of State for Railways, Govt. of India, since March 13, 1967. b. March 15, 1917; *Educ.*: St. Paul's Coll., Calcutta; Univ. of Calcutta. Has been engaged in paper business; Director: Himalay Paper & Board Mills Pvt. Ltd., Himalay Paper (Machinery) Ltd., Printing & Processing Industries Ltd. etc. till Jan. 1967; elected member, Lok Sabha, 1967 general elections. Address: 20, Seven Tanks Lane, Calcutta 30; 13, Akbar Road, New Delhi 11.

GHOSH, Sambhu, Minister for Cottage & Small-Scale Industries, West Bengal, since Feb. 1969. Was Senior Lecturer of Philosophy, Uluberia Coll.; elected M.L.A., West Bengal from Chinsurah since 1962; is member, State Secretariat of the Forward Bloc. Address: Writers' Buildings, Calcutta.

GHOSH, Surendra Nath, M.A., LL.B., Journalist; Editor, *The Pioneer*, Lucknow, since 1946. b. May 20, 1904; *Educ.*: Allahabad Univ. Started as a reporter; later became News Editor and subsequently Chief Asstt. Editor of *The Pioneer*; Chairman: U.P. Council for Food, Fisheries and Forests; Member: U.P. Planning Commission; Stg. Cttee. of the All-India Newspaper Editors' Cfee.; Leg. Council, U.P.; U.P. Telephone Advisory Cttee. Address: Lucknow.

GHOSH, Tushar Kanti, Padma Bhushan (1964), Editor and Mg. Dir., *Amrita Bazar Patrika*, Calcutta; Mg. Dir., *Jugantar*. b. Oct. 4, 1899; *Educ.*: Calcutta Univ., Bangabasi & Vidyasagar Coll. Started as sub-editor, 1920; founded: *Jugantar* (Calcutta), Bengali daily; *Allahabad Patrika*, English daily and *Amrita*, a Bengali Weekly at Calcutta. Pres.: A.I.N.E.C., 1946-47; I.E.N.S., 1948-49; Ex-Chairman, P.T.I.; U.N.I.; Chairman, A.B.C.; Trustee, Press Instt. of India; Vice-Pres. and member, Exec. Cttee., Intr'l. Press Instt.; Chairman, Indian Sect., Commonwealth Press Union; attended International Press Cfees. in many countries and travelled extensively all over the world. Address: Editor, *Amrita Bazar Patrika*, Calcutta; Chief Editor, *Northern India Patrika*, Allahabad.

GHURBURRUN, H.E. Mr. Rabindrah, High Commissioner for Mauritius to India. b. Sept. 27, 1929; *Educ.*: New Eton Coll., Rose Hill, Mauritius, Keble Coll., Oxford (1956-59); was called to the bar at the Middle Temple, 1959. Has been Pres. of the following associations in Mauritius: Hindu Education Authority, since 1960; Sugar Cane Planters' Assoc., 1962-63; National Congress of Young Socialists since 1962; Arya Sabha, Mauritius, 1962-65. Address: High Commission of Mauritius, New Delhi.

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GIRI, V. V., Barrister-at-Law, President of India since Aug. 24, 1969. *b.* Aug. 10, 1894, in Berhampore; *Educ.*: National Univ., Ireland. Trade Union Leader for many years; General Secy. and Pres. of the All-India Railway-men's Federation; twice Pres., A.I.T.U.C.; Indian Workers' delegate to the Intn'l labour Cfce., Geneva, 1927; Workers' Rep. at the Second R.T.C., London, 1931; Member, Central Leg. Assembly for several years; Minister for Labour, Industries and Co-op., Madras, 1937-39; Min., Madras, 1946; Indian High Commr. in Ceylon; Union Min. for Labour, May 1952-Sept. 1954; M.P., Lok Sabha, 1952-57; Elected Pres., Indian Cfce. of Social Work, 1958; Governor of U.P., 1957-60; Founder Pres., Indian Soc. of Labour Economics; Governor of Kerala, 1961-65; Governor of Mysore, 1965-67; Vice-President of India, May 13, 1967 to May 3, 1969; Acting President of India, May-Aug. 1969. *Publications*: *Industrial Relations: Labour Problems in Indian Industry*. *Address*: Rashtrapati Bhawan, New Delhi 4.

GOENKA, Rai Bahadur Sir Badridas, Kt., C.I.E., B.A., Industrialist. *b.* July 30, 1883 at Calcutta; *Educ.*: Graduated from the Presidency Coll., Calcutta, 1905; Director: R.B.I. (Central Board), 1934-41; Imperial Bank of India, 1941-55; State Bank of India, 1955-57; Pres.: F.I.C.C.I., 1945-46; Marwari Assoc., 1928-30; Indian Chamber of Commerce, 1941; Trustee: Calcutta Improvement Trust, 1928-40; Victoria Memorial Hall, Calcutta; M.L.C., Bengal, 1923-35; Sheriff of Calcutta, 1932-33; made Rai Bahadur, 1925, C.I.E., 1928 & Knight Bachelor, 1934. *Address*: "Goenka Niwas," 19, Belvedere Road, Alipore, Calcutta 27.

GOENKA, Keshav Prasad, Padma Bhushan (1969), Industrialist. *b.* 1912. Sheriff of Calcutta (1950-51); Pres., F.I.C.C.I. (1964-65); Cttee. of the All-India Org. of Industrial Employers; Indian National Cttee. of the Intn'l. Chamber of Commerce; Export Promotion Adv. Council, Govt. of India; Cttee. of the Indian Chamber of Commerce (1948-49), (1956-57); ex-Commr. for the Port of Calcutta; Chairman: Duncan Bros. & Co., Ltd.; Balmer Lawrie & Co. Ltd.; Anglo India Jute Mills Co., Ltd., Birpara Tea Co., Ltd.; Phillips Carbon Black Ltd.; Asian Cables Corpn. Ltd.; Woolecombers of India Ltd.; Dir.: Reserve Bank of India (1948-49); Bank of Baroda Ltd., etc.; Member: Senate, Calcutta Univ. *Address*: 31, Netaji Subhas Road, Calcutta 1; *Residence*: "Goenka Niwas," 19, Belvedere Road, Calcutta.

GOKAK, Vinayak Krishna, M.A. (Bom. & Oxon.), Padma Shri, 1961, Kannada writer; Vice-Chancellor, Bangalore Univ. since 1966. *b.* Aug. 10, 1909; *Educ.*: Majid High School, Savanur; Karnatak Coll., Dharwar; Jesus Coll., Oxford. Principal: M. N. Coll., Visnagar (1946-49); Rajaram Coll., Kolhapur, 1949-52 & Karnatak Coll., Dharwar; Pres., Univ. Sect., All India Edu. Cfce., Madras, Dec. 1957; Kannada Literary Cfce., Bellary, 1958; Leader, Indian delegation to America to study systems of exam., 1958; Sahitya Akademi Award for Kannada 1961; Pres., All-India English Teachers' Cfce., 1961; Vice-Pres., Commonwealth Cfce. on the Teaching of English, Uganda, 1961; Dir.: Central Institute of English, Hyderabad (1959-66). *Publications*: *The Song of Life, The Poetic Approach to Language* (O.U.P.); *English in India* (Asia). *Address*: Bangalore.

GOLWALKAR, Madhav Sadashiv, M.Sc. (Zoology), LL.B., Sarsanghehalak (Chief Organiser), Rashtriya Swayamsevak Sangh (R.S.S.) *b.* Feb. 18, 1906; *Educ.*: Hislop Coll., Nagpur; Banaras Hindu Univ. Joined Banaras Hindu Univ. as a Prof., 1930; at B.H.U. came in contact with Dr. Keshav Baliram Hedgewar, the

founder of R.S.S. and started taking interest in their work; joined Ramkrishna Mission Ashram, Sargachhi, 1936; was initiated by Swami Akhandanandji; after the death of Dr. Hedgewar, was apptd. the head of R.S.S. *Publications*: *We or our Nationhood Defined* (English, Marathi, Hindi); *Speeches of Swami Vivekanand at the Chicago Conference* (Marathi). *Address*: Dr. Hedgewar Bhavan, Nagpur.

GOMBU, Nawang, Padma Shri (1964), Padma Bhushan 1966, Olympic Gold Medal and Indian Mountaineering Foundation Gold Medal, 1967, Mountaineer; Dy. Dir. of Field Training, Himalayan Mountaineering Instt., Darjeeling. *b.* 1934, in Solokhumbu village. Worked as an high altitude Sherpa in 1953 British Expedition; climbed Sakan peak, Koktang, Mont Blanc, 1967, Rathong; reached the top of the Everest in the first summit party of the successful Everest expedition, 1963; was member of the successful Indian Expedition to Nanda Devi and climbed the highest peak in India, 1964; was member of the successful Indian Expedition in 1965 and reached the top in the first summit party. *Address*: Himalayan Mountaineering Institute, Darjeeling.

GOPAL, Dr. Sarvepalli, M.A., B.L. (Madras), M.A. (Oxon.), D. Phil. (Oxon.), D. Litt. (Oxon.), Reader in South Asian History, Oxford Univ. and Fellow of St. Antony's Coll.; Hon. Historical Adv., Ext. Affairs Min.; Hon. General Editor, Selected Works of Jawaharlal Nehru. *b.* April 23, 1923; *Educ.*: Madras Univ.; Oxford Univ. Lecturer and Reader in History, Andhra Univ., Waltair (1948-52); Asstt. Dir., National Archives of India (1952-54); Dir., Historical Dvn., Ext. Affairs Min., 1954-66. *Publications*: *The Permanent Settlement in Bengal and its Results* (London, 1949); *The Viceroyalty of Lord Ripon* (Oxford, 1953); *The Viceroyalty of Lord Irwin* (Oxford, 1957); *British Policy in India, 1858-1905* (Cambridge, 1965); *Modern India* (London 1967); and articles in *History, History Today* and the *Encyclopaedia Britannica*. *Address*: 30, Edward Elliot Road, Mylapore, Madras 4.

GOPALAN, A. K., M.P., Communist Leader. *b.* Oct. 1, 1904; *Educ.*: Tellicherry, Malabar and Madras. Political worker; joined Congress, 1927; courted jail for 13 yrs., 4 months; Pres., Kerala Cong. Cttee. and member, A.I.C.C. for six years; joined Cong. Socialist Party, 1934; March on foot from Kasargod to Trivandrum at the head of a peasant jatha to press for the implementation of Kerala Agrarian Relations Bill; M.P., Lok Sabha, since 1952; Pres., All India Kisan Sabha, 1956; toured U.S.S.R., 1952 and 1956 and China, 1952; leader of the opposition in the first and third Parliament; elected member, Polit Bureau, C.P.I., 1964; arrested on Dec. 30, 1964 under DIR and detained at Central Jail, Trichur. *Address*: 4, Ashoka Road, New Delhi 1.

GOPALASWAMY, Kurma Venu, B.A. Madras, M.A. (Oxon.), Bar-at-Law, Telugu and English writer. *b.* Dec. 19, 1903; *Educ.*: C.M.S. High School, Ellore; Christian Coll., Madras; Balliol Coll., Oxford; Inner Temple, London; Advocate, High Court of A.P., Hyderabad; Pres.: The Telugu Little Theatre, Vijayawada; member: Indian Sahitya Akademy, 1954-56; Andhra Pradesh Sangeet Natak Akademi; A.P. Sahitya Akademi; Leader, Govt. of India Delegation of Univ. Administrators to U.S.A. and U.K., 1958. *Publications*: *Limitations of Diarchy as a First Step Towards Representative Government*; Editor, *Best One Act Plays*, in Telugu; *Short History of Telugu Literature*. Co-author of Telugu Stories and Plays. *Address*: Principal, Jawahar Bharati Kavali, Nellore, Andhra Pradesh.

GOPAL-AYENGAR, Anekal Ramaswamiengar, M.Sc. (Mysore), M.A. (Toronto), Ph.D. (Toronto), Padma Shri (1967), Director, Bio-Medical Group, Bhabha Atomic Research Centre, Trombay, since 1962. *b.* Jan. 1, 1909; *Educ.*: Univs. of Mysore & Toronto. Toronto Univ., Vincent Massey Fellow, 1938-39; Elizabeth Ann Wintercorbyn award, 1941. J. H. Bhabha Prizeman, 1948; Senior Intn'l. Research Fellow, Lady Tata Trust, Chester Beatty Research Inst., London & Inst. for Cell Research Karolinska Inst., Stockholm, 1951-53; served AEET in several capacities; Associated with Intn'l. Soc. for Cell Biology, N.Y. Acad. of Sci., American Asscn. for Cancer Research, Fellow, Indian Academy of Sci., Fellow, National Inst. of Sci.; Chairman, U.N. Scientific Cttee. on Atomic Radiation since 1956; WHO Expert, Radiation Cttee., 1958-68; Member of Council: Intn'l. Union for Pure & Applied Biophysics, 1961-67; Rep. for S.E. Asia on Genetics Sect. of the Intn'l. Union of Biological Sci., 1958-69; Intn'l. Cell Research Org., 1963-69; Pres., International Commn. on Radiation Biophysics, IUPAB; Editorial Board: Mutation Research; Radiation Botany; Research interests: gene duplication & chromosome synthesis, properties of malignant systems, human chromosomes, biological investigations in high radiation areas, etc. Publications in cytology, cytochemistry, cancer research, radiation biology. *Address*: Framroz Court, Marine Drive, Bombay-1.

GORAY, Narayan Ganesh, B.A., LL.B., Chairman, Praja Socialist Party. *b.* June 15, 1907; *Educ.*: Fergusson Coll., Poona. Social worker; joined Congress and Satyagraha campaign, 1930; was member: National Exec. of the Congress Socialist Party, 1934; A.I.C.C.; Jt. Secy., Socialist Party, 1948; General Secy., P.S.P., 1953-54; elected to the Court of the Univ. of Poona from the Trade Unions Constituency, 1949-1962; led the first batch of Satyagrahis in Goa, May 1955; was sentenced to 10 years' imprisonment by the Portuguese Govt.; released, Feb. 1957; Critic, essayist, story writer and translator; often imprisoned during India's freedom movement; M.P. from Poona (1957-62); Gen. Secy., P.S.P., 1963; Mayor of Poona, 1967-68. *Publications*: *History of the United States of America*; Short Stories, Essays, Translations, etc., in Marathi. *Address*: 1813, Sadashiv Peth, Poona 2.

GOSWAMI, Trailokya Nath, M.A., B.L., Sahitya Akademi Award 1967, Writer. *b.* March 3, 1906; *Educ.*: Nalbari & Gauhati (Assam); Calcutta Univ., 1932; Earle Law Coll. Joined Nalbari Coll. as founder Principal, 1945; Pres.: Assam Coll. Teachers' Assoc., 1954-56; Assam Sahitya Sabha, 1960-63; Kamrup Sanskrit Sanjibani Sabha. *Publications*: *Aruna: Marichika*; *Silpir Janma* (collection of short Stories); *Jia Manuh* (a satiric novel); *Sahitya Alochana*, *Adhunik Gulpa Sahitya*, a critical study of modern story literature; *Samudra-Manthan* (critical essays). *Address*: Retd. Principal, Nalbari College, Nalbari (Assam).

GOURI*, Smt. G. R., B.A., B.L., Minister for Revenue, Kerala. *b.* 1919; *Educ.*: Took degree in Law. Set up practice at Shertallai; joined the Communist Party of India; was active in trade union and peasant movements; jailed on a number of occasions; is Pres., Kerala Karshaka Sangham; elected M.L.A., Travancore-Cochin, 1952 and 1954 and Kerala, 1957, '60, '65 & '67; Minister for Revenue, Kerala, 1957-59. *Address*: Trivandrum.

GOVINDACHARI, Dr. Tuticorin Raghavachari, M.Sc., Ph.D., F.N.I., F.A.Sc., Shanti Swarup Bhatnagar Award for Chemical Sciences (1960), Scientist; member,

International Union of Pure and Applied Chemistry; Dir., CIBA Research Centre, Bombay, since Jan. 1963. *b.* July 30, 1915; *Educ.*: Presidency Coll., Madras; Univ. of Illinois, U.S.A.; Addl. Prof. of Chemistry, Presidency Coll., Madras 1950; Prof. of Chemistry, 1951; Chief Prof. of Chemistry, 1952; Principal, Presidency Coll., Madras, 1961, 1962. *Publications*: Over 150 publications in the field of alkaloids, terpenoids and other natural products and also in the synthesis of heterocyclic compounds. *Address*: CIBA Research Centre, Goregaon East, Bombay 62.

GOVINDDAS, Doctor, Sahitya Vachaspati, LL.D., Padma Bhushan 1961, M.P., Lok Sabha, since 1952. *b.* Vijay Dashmi Day, 1896; *Educ.*: Privately upto M.A. Entered politics, 1919; elected to the Central Assembly, 1923, 1934 & 1946, Council of State, 1925; Constituent Assembly, 1947; member, A.I.C.C., since 1921; Pres.: Mahakoshal P.C.C. for 20 years; All-India Hindi Sahitya Sammelan 1948; Leader, Delegation to Commonwealth Parliamentary Conference, New Zealand, 1950; member, Cong. Working Cttee., 1950-51 & 1958; Pres., M.P.C.C. of reorganized M.P., 1957; appointed temporary Speaker, Lok Sabha, 1957, 1962 and 1967; Doctor of Laws, Jabalpur Univ., 1960. *Publications*: 109 plays in Hindi, one novel *Indumati* and 4 travel books and Autobiography in three volumes. *Address*: 33, Ferozshah Road, New Delhi 1; Raja Gokuldas Palace, Jabalpur (M.P.).

GRACIAS, His Eminence Valerian Cardinal, D.D., M. Agg., Padma Vibhushan (1966), Archbishop of Bombay since Dec. 1, 1950. *b.* Oct. 23, 1900; *Educ.*: St. Patrick's High School, Karachi; St. Joseph's Seminary, Mangalore; The Papal Seminary, Kandy, Ceylon and The Gregorian Univ., Rome. Secy. to the Archbishop (1929-36); Chancellor of the Archdiocese, 1929; Editor, of *The Messenger of the Sacred Heart* (1935); Co-Editor, *The Examiner* 1938; Rector of the Pro-Cathedral, Dec. 1941; Titular Bishop of Tannis and Auxiliary to the Archbishop of Bombay, April 11, 1946; created Cardinal, Jan. 12, 1953; Consultor to the Sacred Congregation for the Oriental Churches, The Sacred Congregation of the Sacraments and the Sacred Congregation for the Propagation of the Faith; Pres., Catholic Bishops' Conference of India. *Publications*: *Features of Christian Life*; *Heaven and Home*; *The Vatican and International Policy*; *The Decline of Public Morals*; *The Chief Duties of Christians as Citizens*. *Address*: Archbishop's House, Bombay 1.

GROVER, Mr. Justice Amar Nath, M.A., LL.B. (Cantab.), Barrister-at-Law, Judge, Supreme Court of India since Feb. 12, 1968. *b.* Feb. 15, 1912; *Educ.*: Govt. Coll., Lahore; Christ's Coll., Cambridge; Prizeman and Hony. Scholar, Christ Coll., Cambridge; called to the Bar by the Middle Temple, 1936. Practised as an Advocate at Lahore, Simla and Chandigarh 1936-57; Member, Bar Council 1954-57; Judge, Punjab High Court 1957-Feb. 1968. *Address*: 6, Motilal Nehru Place, New Delhi.

GUHA, Arun Chandra, B.A. (Calcutta), Journalist, Publisher, Author. *b.* May 1892; *Educ.*: B. M. School and Coll., Barisal (East Bengal). Joined the 'Yugantar Party'—the revolutionary party; was in jail for over 23 years under Regulation III of 1818 as a State prisoner at several places; Gen. Secy., Bengal P.C.C., 1940-41; member: A.I.C.C. since 1938; Constituent Assembly, 1946; Provisional Parliament; elected M.P., 1952, 1957 & 1962; Min. of State for Finance, 1954-57; Chairman, Estimates Cttee. and member, P.A.C. of the Parliament; Min. for Revenue and Defence Expenditure, Govt. of India (upto April 1957); Editor, *Mandira*, Bengali literary

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GUHA, Dr. (Smt.) Phulrenu, M.A. (Calcutta), D. Litt. (Sorbonne), Minister of State in the Deptt. of Social Welfare, Govt. of India, since March 13, 1967. *b.* Aug. 13, 1911 at Calcutta; *Educ.*: Sylhet, Calcutta, London and Paris. Participated in the freedom movement since her early days; has been an active social worker especially during the Bengal famine, 1943; in Noakhali, 1946; has been actively connected with All India Women's Conferences in different capacities for more than two decades and with Social Welfare Board in W. Bengal from its very inception; elected to Rajya Sabha, April 1964. *Address*: Minister of State, Deptt. of Social Welfare, Govt. of India, New Delhi.

GUJRAL, Inder Kumar, M.A., B.Com., Minister of State for Information & Broadcasting and Deptt. of Communications, Govt. of India, since Feb. 14, 1969. *b.* Dec. 4, 1919, at Jhelum; *Educ.*: Forman Christian Coll. and Hailey Coll. of Commerce, Lahore (W. Pakistan); Was Vice-Pres., New Delhi Municipal Cttee. for five years; member, All India Central Citizens' Council; is Secy., Resources Sub-Cttee. of the Council; has travelled widely in Europe, Asia, Africa and Australia; represented the Indian Parliament at the Inter-Parliamentary Union Conference in Canberra; is the Founder-Pres., Delhi Arts Theatre and Treasurer, Federation of Film Societies of India; Vice-Pres., Lok Kalyan Samiti; is a Rotarian; Pres., Rotary Club, Co-chairman, Asian Regional Conference of Rotary International, 1958, and Member, A.I.C.C. *Address*: 9, Motilal Nehru Marg, New Delhi 11.

GUJRAL, Satish, Govt. Diploma in Art, Diploma in Advance Painting, Mexico, Painter. *b.* Dec. 24, 1925; *Educ.*: The Mayo School of Arts, Lahore; J. J. School of Arts, Bombay; Palacio Nacinal de Bellas Artes, Mexico City, and at various art workshops at New York, Paris and London. Was Art Executive, Punjab State Govt., and Vice-Principal, Govt. School of Arts, Simla; studied and travelled extensively in central and north America and in Western Europe; held one-man-shows in Delhi, Bombay, Mexico City, New York, London, Amsterdam, Montreal; won Academy Awards, 1956, 1957. *Publications*: Articles on art and culture in Indian and Mexican journals. *Address*: C II, 41, Tilak Marg, New Delhi.

GUPTA, Bhupesh, B.A. (Calcutta), LL.B. (Lond.), Barrister-at-Law, M.P. (Rajya Sabha); Member, National Council and Central Secretariat of the C.P.I.; Editor, *New Age*, since Jan. 1966. *b.* Oct. 1914; *Educ.*: Calcutta and London Univs.; Middle Temple. In detention without trial in Berhampore Detention Camp, 1933-36. Has been a whole time political worker. *Publications*: A critique of the Second Five Year Plan and a number of political pamphlets. *Address*: 20, Netaji Subhas Chandra Bose Road, Calcutta 40; 5, Feroze Shah Road, New Delhi.

GUPTA, Chandra Bhanu, M.A., LL.B., Politician; Chief Minister, Uttar Pradesh, since Feb. 26, 1969. *b.* July 14, 1902; *Educ.*: Lucknow Univ. Practised Law, 1925; member: U.P.C.C. and A.I.C.C., since 1926; jailed in freedom movement in several times; elected to the court and the council of Lucknow Univ., 1927, its Treasurer, 1947; Pres., D.C.C., Lucknow, 1929-44; member, Exec. Council, Lucknow Univ., 1929-59; and Treasurer, member, A.I.C.C., 1926-59; Treasurer, U.P., P.C.C., 1946-58 (Vice-Pres., 1958); M.L.A., U.P., 1937-62; Parly. Secy. to Chief Min., U.P. Govt., 1946; Min. for Food and Civil

Supplies, Public Health, Industries & Plng., 1948-57; elected Pres., P.C.C. in Oct. 1960; Chief Min., U.P., 1960-63; resigned under the "Kamaraj Plan", Aug. 1963; Chief Minister, U.P., March 1967; Leader of the Opposition in U.P. Leg. Assembly, 1967-69; M.L.A., U.P., in mid-term election, Feb. 1969. *Address*: Seva Kutir, Pandariba, Lucknow.

GUPTA, Suresh Chandra, B.Sc. (Agra), A.H.B. T.I., F.I.I.S.T., F.I.C. (India), M.I.I. Chem. E., Dir., National Sugar Inst., Kanpur, since 1964. *b.* July 7, 1913; *Educ.*: D.A.V. Coll., Dehra Dun, Meerut Coll., Meerut; H.B.T.I. & I.I.S.T., Kanpur. Dir., National Federation of Co-op. Sugar Factories; member: Devpt. Council for Sugar Industry, since 1964; I.S.S.C.T. since 1956; Sugar Enq. Commn.; Tech. member, Govt. delegation to I.S.S.C.T., 1962; Ex-Officio member of 18 cttees. of Govt. and semi-Govt. Departments, since 1964. Invented the Defeco Melt Crystallization process for manufacture of sugar without the use of sulphur and was awarded Rs. 500 prize by Inventions Prom. Board, 1967; widely travelled. *Publications*: Published a number of Papers: *Design and Working of Process Equipments, Fuel and Steam Economy*, etc. *Address*: National Sugar Institute, Kalianpur, Kanpur.

GURUPADASWAMY, M. S., M.A., LL.B., Ex-Minister of State for Food, Agriculture, Community Devpt. and Co-operation, Govt. of India (1967 to 1969). *b.* Jan. 8, 1923; *Educ.*: Mysore Univ. and Lucknow Univ. Practised law at the Bangalore Bar, 1946-48; Editor, *Prajamata*, Bangalore, 1948-53; was M.P., Lok Sabha on P.S.P. ticket, 1952; member, National Exec. of the P.S.P., 1957-63; Chairman, Mysore State P.S.P., 1958-60; was Secy., Parliamentary group of the P.S.P.; elected to the Rajya Sabha, 1960 and 1966; member, informal consultative cttees. of M.Ps. attached to the Ministries of External Affairs and Finance; has been member, Chanda Cttee. on Media of Mass Communications and also of Public Undertaking Cttee. of Parliament; Min. of State, Dept. of Atomic Energy, Govt. of India (March-June 1967); had been to France, U.K., Germany, Switzerland, Italy, U.S.S.R., Israel, Iran, Sweden, Denmark, Austria, Poland and some African countries; Editor, *Parliament Studies*, a monthly published from Delhi. *Publications*: *International Studies; Political Pilgrimage and Communalism*. *Address*: New Delhi.

GUTIERREZ-MACIAS, H.E. Mr. Carlos, Ambassador Extraordinary and Plenipotentiary of Mexico, since March 1, 1969. *b.* March 12, 1910; *Educ.*: Mexico. Served in: several Mexican Consulates in the U.S.A.; Mexican Embassies in Japan, Norway, Finland and the Philippines; the Mexican Ministry of Foreign Relations; Ambassador of Mexico in Sweden, 1963-69. *Address*: Office: Embassy of Mexico, 136, Golf Links, New Delhi-3; Residence: 13, Prithviraj Road, New Delhi-11.

GWALIOR: H.H. Rajmata Maharani Vijaya Raje Scindia of: M.L.A., Social worker. *b.* Oct. 12, 1919; *Educ.*: Privately at home and at Besant Coll., Banaras; awarded D. Litt., Vikram Univ.; Vidya Vachaspati, Gukul, Jwalapur. Devoted to social and child welfare work and female educ.; Founder Pres., Shishu Mandir, a Montessori School for small children and Scindia Kanya Vidyalaya; Pres., Board of Governors: Scindia Public School, Gwalior; Madhao Engg. Coll., Gwalior; Samrat Ashok Technological Inst., Vidisha; Chancellor, Saugor Univ.; member: Board of Governors of Laxmibai Coll. of Physical Educ.; Syndicate of Vikram Univ.; India International Centre; Central Board of Film Censors. Pres., M.P. Branch of Social and Moral Hygiene; was

Chairman, M.B. State Adv. Board of the Women's Small Savings Campaign and of the Indian Council of Child Welfare, M.B. Branch; was twice elected Vice-Pres., A.I.W.C. and has been Pres., Gwalior branch; M.P., Lok Sabha from Guna Constituency in 1957 and from Gwalior Constituency in 1962; M.L.A. from Kerala Constituency 1967; Leader, Samyukta Vidhayak Dal, M.P. State Assembly. *Address*: Jai Vilas, Gwalior; Samudra Mahal, Worli, Bombay 18.

HAKSAR, Parmeshwar Narain, M.Sc., Barrister-at-Law (Lincoln's Inn), I.F.S., Secy. to the Prime Minister, since May 1967. *b.* Sept. 4, 1913; *Educ.*: Allahabad Univ.; London School of Economics and Univ. Coll., London. Practised Law at Allahabad High Court; Adviser, Indian delegation to the Security Council on Kashmir; Secy., High Commn. of India (Ext. Dept.), London, May 1948; Adv. and later Alternate delegate, Sixth Session, Gen. Assembly, U.N., Paris; Counsellor, Indian High Commn., London, Aug. 1952; Adv. and later Alternate Chairman, Neutral Nations' Repatriation Commn., Korea, 1953-54; Dir., Ext. Publicity Dvn., Min. of Ext. Affairs, 1955-58; Member, U.N. Expert Cttee. on Public Information, 1958; Jt. Secy., Min. of Ext. Affairs, 1959-60; High Commr. in Nigeria, Sept. 1960; Amb. in Republics of Dahomey and Togo, 1962-64; Amb. to Austria, 1964-65; Dy. High Commr. and Ag. High Commr. in U.K. 1965-67; Member: Atomic Energy Commn. *Address*: 9, Race Course Road, New Delhi.

HALDAR, Krishna Chandra, Minister for Excise, West Bengal, since Feb. 1969. *b.* Oct. 1922. Has been a prominent peasant leader of Burdwan district; joined the CPI and served several terms of imprisonment; later became a member of the CPI (M). *Address*: Writers' Buildings, Calcutta.

HALDULKAR, Ramakant Kesheorao, Gen. Secy., All India Forward Bloc, since 1955. *b.* Jan. 4, 1916, at Bijakwara Village, M.P.; *Educ.*: Nagpur; Hindi Bhashi Sangh High School; City Coll., Nagpur. Imprisoned in the Sitabaldi Bomb Case; secured various awards for mine workers; jailed in the freedom movement; joined the All India Forward Bloc, 1939; is Pres.: M.P. Mine Workers' Union, Bombay Pradesh Mine Workers' Union, Bellapur, Maharashtra; was Vice-Pres., A.I.T.U.C.; elected Pres., A.I. Mine Workers' Federation, 1959; Pres., and later Secy., M.P. State Cttee. of the Indian Federation of Independent Trade Unions; elected Secy., Dt. Freedom Fighters' Assn. since 15th July 1968; Editor and Publisher, *Inquilab* (Weekly), Chhindwara, since Nov. 1958. *Address*: General Secy., All India Forward Bloc, Subhash Ward No. 2, Chhindwara, Madhya Pradesh.

HAMIED, Dr. K. A., B.Sc., M.A., Ph.D. (Berlin), F.C.S., F.S.C.I., F.R.I.C. (Lond.); Member, American Chemical Soc., F.I.A.Sc. (Ind.), J.P.; Chairman, Exec. Council, Central Drug Research Institute; Fellow: Bombay Univ.; Court of Aligarh Univ. & member, Exec. Council; Hon. Prof., Aligarh Univ., Industrialist. *b.* Oct. 31, 1898; *Educ.*: Allahabad and Berlin Universities. Took part in freedom movement; started Cipla Ltd., 1935; is its Chairman and Tech. Expert; had been a Congress member, Bombay (later Maharashtra) Leg. Council for over 25 years; Director: of several firms in Bombay; Pres., Indian Chemical Mfrs. Assoc., 1945-48 and 1949-50; Leader, Indian Chemical Delegation to U.K. and U.S.A., 1945-46; Sheriff of Bombay, 1952-53; Member: Governing Body, C.S.I.R.; Devpt. Council for Drugs and Pharmcls.; Pharmaceuticals & Drugs Research Cttee., Govt. of India; Maharashtra State Industrial Research Cttee. *Address*: 289, Bellasis Road, Byculla, Bombay 8.

HANNA, J. B., Graduate in Petroleum Engg., Univ. of Pittsburg, Mg. Dir., Esso Standard Refining Co. of India, Ltd., and Asstt. Gen. Manager (Mfg.), Esso India, since 1964. *b.* April 24, 1911; *Educ.*: Pittsburg Univ., U.S.A. Joined Esso Standard Oil Company; worked at Esso's Bayway Refinery, 1935-51; Refinery Manager of Stanvac's Durban Refinery, 1952; later became its Mg. Director; returned to New York for a Special assignment in Refining Co-ordination Dvn., 1956; Managing Dir., Stanvac Bombay Refinery, 1957-59; re-assigned to New York in 1959, in charge of Refining Coordination Dvn.; later apptd. Regional Coordinator, South Asia Region and Regional Coordinator for Japan. *Address*: Esso Building, 17, Jamshedji Tata Road, Bombay 1.

HANUMANTHAIYA, Kengal, B.A., LL.B., MP., Chairman, Admin. Reforms Commn., Govt. of India; member, Exec. Cttee., Cong. Party in Parliament. *b.* 1908; *Educ.*: Maharaja's Coll., Mysore; Law Coll., Poona. Pres., Bangalore D.C.C. for 10 years; imprisoned 7 times during freedom struggle; started "Palace Satyagraha" movement in 1948 to achieve democratic Govt. in Mysore State; Pres., Bangalore City Municipal Council, 1942; Leader, Cong. Party, Mysore Rep. Assembly 1945-49; Pres., Mysore P.C.C., 1950-52; delegate, Inter Parly. Ctees: Stockholm, 1948; Dublin, 1950; Brazil, 1962; Chief Min., Mysore, 1952-56; nationalised Kolar Gold Mines; integrated Karnataka; M.L.A., Mysore, 1952 & 56; elected to Lok Sabha, 1962 & 1967; Chairman, the Punjab Adm.ive Reforms Commn., 1964-65; Leader, Indian Delegation to Commonwealth Parliamentary Conference, Ottawa, 1966; Leader, Parliamentary delegation to Bhutan. *Address*: "Kengal Krupa", Bangalore 6; New Delhi.

HATHI, Jaisukhlal, Minister for Labour & Rehabilitation, Govt. of India, since March 1967; Leader of the House in Rajya Sabha, since Nov. 1967. *b.* Jan. 19, 1909. Passed Law Exam. Enrolled as Advocate, Bombay High Court; elected member, Constituent Assembly, 1946-47; was member, Provl. Parliament; Chief Secy., Saurashtra, 1948; M.P., Rajya Sabha from Saurashtra; whip of the Cong. Party in the Rajya Sabha; M.P., Lok Sabha, 1957; M.P., Rajya Sabha, 1962; Chairman: Bharatiya Vidya Bhavan, Delhi Centre; Union Dy. Min. for Irrigation and Power, 1952-62; Union Min. of State for Labour, April-Nov. 1962; Min. of Supply, Nov. 1962-64; Min. of State, Min. of Home Affairs, Govt. of India, also Min. of Defence Supplies, 1964-66; Min. of State for Defence, 1966-67. *Address*: New Delhi.

HAZARI, Captain Durgdas Gehisingh, Master Mariner (F.G.), Member of Inst. of Marine Technologists, Member of Company of Master Mariners, J.P. (Greater Bombay), Captain Supdt., Trg. Ship "Dufferin" since Sept. 1962. *b.* Dec. 3, 1916; *Educ.*: P. N. Anglo-Sanskrit High School, Patna. Trg. Ship "Dufferin". Merchant Navy, 1933-43; Exec. Officer, Trg. Ship "Dufferin", 1943-50; Chief Officer, Trg. Ship "Dufferin", 1950-54; Captain Supdt., Trg. Ship "Nau Lakshi", Navlakshi, Saurashtra, 1954-59; Captain Supdt., Trg. Ship "Bhadra", Calcutta, 1959-62. *Address*: Training Ship "Dufferin", Off Mazagaon Pier, Bombay-10.

HEBBAR, Kattingeri Krishna, Padma Shri 1961, Artist. *b.* June 15, 1912; *Educ.*: Gen. Christian High School, Udipi, S. Kanara; Sir J. J. School of Art, Bombay and Academy Julian, Paris. Held one-man shows in India, London, Paris, Switzerland and New York; travelled widely in Europe, U.S.S.R., Poland, U.S.A., Mexico & Japan; member, Lalit Kala Akademi, New Delhi;

winner of several imp. top awards in exhibitions; paintings in several museums and pvt. collections in India and abroad. *Publications*: *Hebbar Drawings and Paintings* (Nalanda Publications, Bombay); *Hebbar's Lalit Kala Akademi*, New Delhi, 1960; *Drawings 'The Singing Line'* (Peacock Publications, Bombay). *Address*: Kala Nagar, Bandra East, Bombay 51.

HECKSCHER, H.E. Dr. Gunnar E., Ph.D. (Political Science), Amb. of Sweden to India. *b.* July 8, 1909; *Educ.*: took Ph.D. (Political Science), 1934. Served as a Prof. in Political Sc. at the Univ.s of Uppsala and Stockholm; member: Swedish Parliament, 1956-65; leader of the Conservative Party in Sweden 1961-65; served in the U. N. as an expert. *Publications*: Many treatises and books mainly on political science. *Address*: Swedish Embassy, Nyaya Marg, Chanakyapuri, New Delhi 21.

HEGDE, Doddamane Ramakrishna, M.A., LL.B. Minister for Fin., Planning and Youth Welfare, Mysore State, since May 29, 1968. *b.* Aug. 29, 1927 in Siddapur Taluk, N. Kanara Dist.; *Educ.*: Siddapur and Sirsi; Kashi Vidyapith, Banaras; Lucknow Univ. Started practice at Sirsi; Pres., North Kanara D.C.C. 1954-57; Dy. Min. for Plng. & Devpt. 1957-58; Gen. Secy., M.P.C.C. 1958-62; re-elected M.L.A., Mysore, 1962 from the Sirsi Constituency; Min. for Dev., Panchayati Raj and Co-op. 1962-65; Min. for Fin., Excise, Prohibition Industries, Mysore, 1965-68. *Address*: Bangalore 1.

HEGDE, Mr. Justice Kawdoor Sadananda, M.A., B.L. (Madras), Judge, Supreme Court of India, since July 1967. *b.* June 11, 1909; *Educ.*: St. Aloysius, Coll., Mangalore; Presidency Coll. and Law Coll., Madras. Advocate from 1936; Public Prosecutor and Govt. Pleader, 1947-51; M.P., 1952-57; represented India in the U. N. as an alternate delegate, 1954; was Judge, High Court of Mysore; Chief Justice, High Court, Delhi, Oct., 1966-July 1967. *Address*: Supreme Court, New Delhi.

HIDAYATULLAH, Mr. Justice M., B.A. (Nagpur), M.A. (Cantab.), Barrister-at-Law, O.B.E. (1946), Chief Justice, Supreme Court of India, since Feb. 12, 1968. *b.* Dec. 17, 1905; *Educ.*: Govt. High School, Raipur; Phillip's Scholar, Morris Coll., Nagpur, Trinity Coll., Cambridge; English and Law Tripos, Lincoln's Inn, Bar-at-Law 1930. Advocate-Gen., Madhya Pradesh 1943-46; Puisne Judge, 1946; member: Nagpur Univ. Exec. and Academic Councils Court, etc. 1934-53; Dean, Faculty of Law, 1949-53; Chief Commr., M.P. Bharat Scouts and Guides, 1950-53; awarded Silver Elephant, 1950; member: Faculty of Law, Saugar Univ.; Univ. Court, Vikram Univ. and Aligarh Muslim Univ., 1954; Faculty of Law, Aligarh Muslim Univ.; Chief Justice, Nagpur High Court, 1954-56; M.P. High Court, 1956-58; Judge, Supreme Court of India, 1958-68; pres., Indian Society of International Law; Exec. Council of International Law Assoc.; member: Exec. Cttee., World Assembly of Judges; International Institute of Space Law; Hon. Bencher: Lincoln's Inn since Sept. 1968; delivered Lajpat Memorial Lectures 1965, Feroze Gandhi Memorial Lectures 1968; assigned to deliver Tagore Law Lecture (1958) in 1969; Acting President of India Aug. 1969. *Publications*: *Democracy in India & the Judicial Process*, *The South West Africa Case*, *Mulla's Mohammedan Law*, *Editor 16th Edn.* *Address*: 5, Hastings Road, New Delhi.

HOLCK-LARSEN, Henning, M.Sc., in Chemical, Engg. & Member, Institute of Danish Civil Engineers; knighted by the King of Denmark, 1962 (R. of D.), Chairman and Managing Director, Larsen & Toubro Ltd. *b.* July 4, 1907; *Educ.*: Univ. of Copenhagen,

Denmark. Was civil engineer, F. L. Smidth & Co. A/S, Copenhagen; formed with Mr. S. K. Toubro, in 1938 the partnership firm of Larsen & Toubro, subsequently converted into a public limited Co.; founder and Chairman, Larsen & Toubro Ltd.; is member, Bombay Chamber of Commerce & Industry, Bombay and a leading Rotarian; is a connoisseur of art and music; awarded diploma by National Assoc. of Danish Enterprise for services to trade relations between India and Denmark. *Address*: Office: Larsen & Toubro Limited, L & T House, Dougall Road, Ballard Estate, Bombay 1; *Residence*: D-11, Mafatlal Park, B. Desai Road, Bombay 26.

HUSAIN, Dr. Iqbal, M.A., B.L., Ph.D., Persian Scholar. *b.* Nov. 22, 1905; *Educ.*: Patna and Law Coll., Patna; Univ. Prizeman, Gold Medalist and Research Scholar. Dean of Faculty of Arts, Patna Univ.; Principal, Patna Coll. and Prof. and Head of the Deptt. of Persian, Patna Univ., 1944-61; Member: Senate, Syndicate, Academic Council and Faculties of Arts and Law, Patna Univ.; member U.G.C., Bihar Madrasa Exam. Board, 1938-44 and 1952-62; Pres. of the Board since 1966; Language expert of the Bihar Hindustani Cttee.; rep. of Patna Univ. in the Indian Council of Cultural Relations, Govt. of India, 1953-61; Dir., Khuda Bakhsh Oriental Public Library, Patna. member: Bihar Public Service Commn., 1961-65; Governing Body of Govt. Urdu Library. *Publications*: *Tuhfa-i-Sami*; *The Early persian Poets of India*, and *Selected Qasidas of Urfi*. *Address*: Exhibition Road, Patna 1.

HUSAIN, Mohammad Azim, B.A. (Punjab), B.A. (Oxon.), M.A. (Cantab.), Bar-at-Law (Lond.), I.C.S., Indian Ambassador to Switzerland and to the Holy See, since Dec. 67. *b.* Oct. 5, 1913; *Educ.*: Punjab; United Kingdom. Joined I.C.S., 1937; served in the Punjab, 1937-42 & in Govt. of India, 1942-48; Jt. Secy., Ext. Affairs Min., 1954-57; Dy. High Commssr., London, 1957-60; Amb. to U.A.R. and concurrently to Libya, 1960 and Min. to Lebanon; concurrently accredited to Yemen, May 1963; Dy. Leader, Delegation of Djakarta Ministerial Cfce. of Afro-Asian Countries; Addl. Secy. and F.S.I., Min. of Ext. Affairs, 1964-65; Secy., Min. of External Affairs, 1965-67; Dy. Leader, Delegation to the Commonwealth P.M. Confce., Lagos, 1966; Leader, Tech. & Economic Delegation to Afghanistan 1966; twice leader, Indian Delegation to the Eighteen Nation Disarmament Cttee. Geneva Jan. to Aug. '68 and twice member, Delegation for the 22nd and 23rd session of the U.N. General Assembly—April-June '68 and Nov.-Dec. '68. *Address*: C/o. Ministry of External Affairs, New Delhi.

HUSAIN, Saiyid Ehtesham, M.A. (Urdu), Gold Medalist, Urdu Critic; Prof. in Urdu, Allahabad Univ., since Nov. 1961. *b.* July 11, 1912. *Educ.*: Wesley High School, Azamgarh (U.P.); Govt. Intermediate Coll., and Allahabad Univ., Allahabad; Fellow of the Rockefeller Foundation (U.S.A.) to study 'Sociology & Literary Criticism' in U.S.A. & Europe, 1952-53; member, Sahitya Akademi, Hindustani Academy, National Book Trust; Programme Advisory Cttee. AIR, Lucknow, etc. *Publications*: *Viraney: Tanqidi Jaeze*; *Ravayet Aur Baghawat*; *Adab Aur Samaj*; *Tanqid Aur Amali Tanqid*; *Zaug-e-Adab Aur Shaoor*; *Urdu Sahitya Ka Itihas*; *Urdu Ki Kahani*; *Aks aur Aaine*; *Afsor-o Masael*; *Ethar-e-Nazar*; *Tanqidi Nazariyat* (2 vols); Translated the Japanese classic *Tale of Genji* by Lady Murasaki, *Kalki* by Dr. S. Radhakrishnan and Romain Rolland's (abridged) *Ramakrishna & Vivekanand* in Urdu. *Address*: Allahabad.

HYDER, H.E. Mr. Sajjad, B.A. (Punjab), High Commissioner for Pakistan in India, since June 29, 1968. *b.* 1920; *Educ.*: Indian Military Academy, Dehra Dun. Was a Commissioned Officer; saw active services in South East Asia; was selected for the I.F.S., 1947; opted for Pakistan; Third Secy. in New Delhi, 1947-48; Second Secy. in Washington, 1948; represented Pakistan on International Emergency Food Council in Washington; Secy. to the Pakistan Delegation to the Tripartite Conference in Cape Town, 1950; posted to London in 1952 and has served as Second Secy., First Secy., and Counsellor, London, 1952; Dir. in Foreign Office, Govt. of Pakistan, 1955-57; Dy. High Commissioner in New Delhi, 1957-59; London, 1959-61; Ambassador in Iraq, 1961-65; Ambassador in U.A.R., 1965-68. *Address*: 8-B, Tilak Marg, New Delhi.

IMBICHI BAVA*, E. K., Minister for Transport, Kerala. *b.* 1917. Entered politics at an early age through the student movement; was an active worker, Congress Party and later Congress Socialist Party; joined the C.P.I., 1940; imprisoned several times for his political activities; was Secy., Palghat Dist. Cttee., C.P.I.(M); was member: Secretariat, Kerala State C.P.I.(M); Rajya Sabha, 1952-54; Lok Sabha, 1962-67; elected M.L.A., Kerala, from Mannarghat, 1967. *Address*: Trivandrum.

IMLONG, K. Akum, Minister for Tuensang Affairs, Supplies & Excise, Nagaland, since March 1969. *b.* March 1935, in Mokokchung; *Educ.*: Mokokchung Govt. High School, St. Paul's Coll., Calcutta; St. Stephen Coll., Delhi Univ. Member, Working Cttee., Naga People's Convention; Circle Officer, Nagaland, 1960; resigned; elected member, Interim Body by Chang Tribe of Tuensang Dist., 1960; elected member, Exec. Council, Feb. 1961; re-elected M.L.A., Nagaland 1963 & 1969. Min. for Tuensang Affairs, Information, Publicity and Tourism, 1964-67 & for Tuensang Affairs, 1967-69. *Address*: Kohima.

ISMAIL, H. H., J. P., Social Worker; Sheriff of Bombay, 1967; Consul-General for Dominican Republic, since 1954, *b.* Aug. 20, 1906, at Amreli; *Educ.*: Panchgani High School; Davar's Coll. of Commerce, Bombay; Commercial Institute, New York. Hon. Consul for the Dominican Republic, 1947-54; Chairman, Indo-Australia Soc.; is Pres.: Memon Chamber of Commerce; Bombay Labour Bureau & G. B. Pant Library on Scientific Management; Indo-Afghan Friendship Society, Indo-Canada Socy.; Bombay Hospitality Commn., etc.; is Chairman, Maharashtra Friendship Society and Maharashtra U.N. Assoc.; is Vice-Pres.: International Club of India; Indian Council of Management Executives; Indo-Arab Society; Indo-German Cultural Society; Maharashtra Coll. of Arts and Science, etc.; is Hon. Treasurer, Shilpi Kendra; has travelled extensively round the world. *Address*: 702, Prabhu Kunj, 5, Pedder Road, Bombay 26.

IYER, Vankatarama C. Mudikondan, President's Award 1961, Karnatic Musician; Principal, Teachers' Coll. of Music, Madras. *b.* October 1897. Began career as a vocal musician; honoured by Mysore & Travancore Maharajas; was conferred the titles of Ganasagara, Gayaka Vidwat Sekhara at Masulipatam, Sangita Chandroday by Udipi Swamiji & Sangita Kalanidhi by the Madras Music Academy, 1949; was member, Board of Studies in Music and Examiner in Madras, Annamalai and Delhi Univs. for many years; is a leading exponent of Ragam, Tanam, Pallavi & Swara singing. *Publications*: *Maha Bharata Chudamani*. *Address*: Principal, The Teachers' College of Music, Music Academy, Mowbray's Road, Madras 14; Mudikondan, S.O. Tanjore District.

IYER, Sangeetha Kalanidhi Musiri Subrahmanya, Karnatic Musician; ex-Principal, Central Coll. of Karnataka Music, Madras; Fellow, Sangeet Natak Akademi, 1968. *b.* 1899 in Musiri, Tiruchi Dist.; *Educ.*: Took initiation in Karnatic music from the late Vidwan Sabesa Iyer. Is an authority on Thyagaraja compositions; has a distinct style of his own, popularly known as the "Musiri style", acted the title role in the film 'Tukaram'; Pres., annual Cfce. of the Madras Music Academy, 1939; President's award for the best Karnatic musician (vocal) for 1957; is a leading exponent of the Karnata Sampradaya Sangeetha in India & one of the prominent living masters of Sasthreeya Sangeetha in South India. *Address*: 18, Oliver Road, Mylapore, Madras.

JACKSON, Richard Owen, Chief Executive of Burmah-Shell companies in India and Chairman, Burmah-Shell Refineries Ltd., since Feb. 1, 1968. *b.* Sept. 26, 1925; *Educ.*: Southend-on-Sea High School, Essex; Queens' Coll., Cambridge. Served with R.A.F.V.R. in England & Egypt 1944-47; joined Burmah-Shell. Sept. 1949; held various positions in Burmah-Shell before joining Shell Intn'l. Petroleum Co., London in 1962 as Head of Hong Kong, China, Thailand, Viet Nam, Cambodia and Laos Divn. in the organisation of the Area Co-ordinator, Oil, Far East; Chairman and Managing Dir., Shell Ghana Ltd., 1964-66; Gen. Manager, Burmah-Shell Marketing Company, 1966-68. *Address*: 1-A, Altamount Road, Cumballa Hill, Bombay-26.

JADHAV, Mary Clubwala, A.T.C.L., Padma Shri (1955), Padma Bhushan (1968), M.L.C. since 1946; J.P., Social Worker. *b.* June 10, 1908; *Educ.*: Nazareth Convent, Ootacamund. Founder, Hon. Secy., Madras School of Social Work and other institutions; Vice-Pres., Madras Parsi Anjuman; Chief Commr., Guides, 1957-60; was Pres., Indian Conference of Social Work; Pres., National Council of Women in India; Sheriff of Madras, 1956-57; Mem.: Central Social Welfare Board and State Social Welfare Board; Exec. Cttee., Intn'l Council of Social Welfare; Vice-Pres. & Life Member of the Indian Council of Child Welfare; Hon. Secy. and Founder, Juvenile Guidance Bureau; Hon. Magistrate since 1935—Presiding Magistrate, Juvenile Court; Member, Panel on Social Welfare, Planning Commn; Pres., Federation of Mentally Retarded. Travelled widely. *Address*: "Phiroy", Nungambakam High Road, Nungambakam, Madras-34.

JAGANNATHAN, K. V., M.A., Vidwan, Vagheesa Kalanidi, Sentamil Selvar, Tamil Kavi Bhushanam, Tamil Perum Pulavar, Upanyasa Kesari, Saiva Bhushanam, etc., Sahitya Academi Award (1968), Tamil Essayist & short story writer; Editor *Kalaimagal*; Vice-Pres., All-India Tamil Writers' Assocn. *b.* April 11, 1906; *Educ.*: Kulitalai & Madras. Member: Sahitya Academi, Tamil Development Research Council, Tamil Academy & Gandhi Works Publishing Sangh; Chairman, Amudha Nilayam Ltd. *Publications*: Nine books of short stories in Tamil, literary essays and research, six collections of poems, altogether 160 books in Tamil. *Address*: Kaanta Malai, Kalyananagar, Madras 28.

JAIKISHAN, Panchal, Padma Shri (1969), Cine Music Director. *b.* Nov. 4, 1932; *Educ.*: Bansda State (Gujarat). Started career from R.K. Film's *Barsat*, 1948; has so far given music in nearly 100 films; has recorded over 900 songs; won Filmfare Award six times for best music direction, four Cinegoers Award, a certificate of merit for best compositions in *Basant Bahar*, presented by H.M.V. a silver shield for the valued service in the field of music by him with Shankar; a recording company of U.S.A. has made an L.P. of Shankar-Jaikishan songs taken from

* Has since resigned,

Barsat, Awara and Shri 420, sung by Egyptian singers; was given the best composition award for the song "Baharo Phool Barsao" from *Suraj*. Address: Gobind Mahal, 4th Floor, Marine Drive, Bombay.

JAIN, Ajit Prasad, M.A., LL.B., M.P. (Rajya Sabha), Ex-Governor of Kerala. *b.* 1902, *Educ.*: Lucknow Univ. Advocate; Chairman: Rural Urban Relationship Cttee.; Board of Management, U.P. Agril. Univ., 1960-64; Leader, Plan Projects Agril. Team; member: Constituent Assembly of India 1946-50; A.I.C.C. continuously for many years; Union Min. for Relief and Rehab., 1950-54; Union Min. for Food and Agr., 1954-59; Pres., U.P.C.C., 1961-64; Governor of Kerala, 1965-66; Chairman, Irrigation Commn., Govt. of India, since April 1969. *Publications*: *U.P. Agrarian Laws*; *Rafi Ahmad Kidvai—Memoirs of His Life and Times*. Address: C-36, N. D., South Extension, Part II, New Delhi 16.

JAIN, Ashok Kumar, B.Sc. (Hons.), Industrialist; Pres., Indian Chamber of Commerce, Calcutta. *b.* March 5, 1934; *Educ.*: Calcutta Univ. Entered business at an early age; is intimately connected with several industries; has toured extensively in Europe, U.S.A. and the Far East in connection with business; Director, Sahu Jain Ltd.; controls and directs the activities of the jute, cement, paper and other industries of Sahu Jain; is Director: Punjab National Bank Ltd., Oriental Gas Co. Ltd.; is Chairman and Director, New Central Jute Mills Co., Ltd., Ashoka Cement Ltd., Sahu Jain Services Ltd. and Sahu Properties Ltd.; ex-Pres.: Indian Paper Mills Assoc., Bihar Chamber of Commerce; Bihar Industries Assoc.; is Exec. Cttee. Member: Federation of Indian Chambers of Commerce & Industry; All India Organisation of Industrial Employers; Indian Paper Mills Assoc.; Cement Manufacturers' Assoc.; Cttee. Member, Indian Sugar Mills Assoc.; represents Sahu Jain group of cement companies on the Governing Body, CACO; has a shrewd comprehension of industrial and economic problems and a close personal knowledge of the working of different industries. Address: 11, Clive Row, Calcutta 1.

JAIN, Lakshmi Chandra, B.Sc., I.C.S., Secy. to the Govt. of India, Deptt. of Communications, since Oct. 1963 and Dir.-Gen., Posts and Telegraphs and Chairman, P. & T. Board, since Nov. 1962. *b.* June 30, 1910; *Educ.*: Christ Church Coll., Kanpur, Allahabad Univ.; School of Oriental Studies, London. After serving in various capacities at Aligarh, Lalitpur, Nainital, etc. apptd. Chief Secy., Hyderabad, Oct. 23, 1948; Chief Labour Commr., Min. of Labour 1951; Dir.-Gen. of Resettlement and Employment and Ex-officio Jt. Secy., Min. of Labour and Labour Commr., 1952; D.G., Civil Aviation, 1953; Offg. Commr., Meerut Dvn., 1958-61; Chief Secy., U.P., 1961-62. Address: 15, Tughlak Road, New Delhi.

JAIN, Sahu Shriyans Prasad, J.P., Industrialist; ex-M.P. (Rajya Sabha), 1952-58. *b.* 1908 in the Sahu family of Najibabad—(Ganesh Sadan), renowned for its traditional liberality and public service; has rendered invaluable services to the people of his town and district; takes keen interest in all matters of social reform and public enlightenment; has done pioneering work in the field of girls' education, Seva Samitis and public libraries for the welfare of his district in particular and the State in general; President, Education Committee of the District Board, Bijnor; and Vice-Chairman, Municipal Board, Najibabad, for many years; Chairman: Dhrangadhra Chemical Works Ltd.; Carona Sahu Co. Ltd.; Dir.: The Dawn Mills Co., Ltd.; Podar Mills Ltd.; Bajaj Electricals Ltd.; The New Swadeshi Mills of Ahme-

dabad Ltd.; The Amitabh Textile Mills Ltd.; Sahu Rubber Private Ltd.; The Premier Automobiles Ltd.; The Gwalior Rayon Silk Manufacturing (Wvg.) Co., Ltd.; Bombay Oxygen Corporation Ltd.; Indequip Engineering Ltd.; The Simplex Mills Co. Ltd.; Shri Ram Mills Ltd.; Ex-President: Alkali Manufacturers Association of India, Federation of Indian Chambers of Commerce & Industry; All India Digamber Jain Parishad; Bharat Jain Mahamandal; Pres. for two years of the Afro-Asian Econ. Conference and presided over the Conference held at Karachi in Dec. 1963; member: Indian Industrial Delegation to the U.S.A., the U.K. and the Continent, sponsored by F.I.C.C.I. 1957; visited Japan in Sept. 1967 as a member of Indian Delegation sponsored by F.I.C.C.I.; M.P., 1952-58; ex-member: Bombay Telephone Advisory Cttee.; Mill-Owners' Asscn.; member: Indian Merchants' Chamber, Bombay; Assoc. of Indian Trade & Industry, Bombay; All India Asscn. of Industries. Address: 100, Mount Unique, Pedder Road, Bombay 26.

JAIN, Shanti Prasad, B.Sc., Industrialist. *b.* 1912 at Najibabad, Dt. Bijnor, U.P.; *Educ.*: Banaras Hindu Univ. and Agra Univ. Has 25 years close association with and knowledge of working and management of important industries like Cement, Sugar, Jute, Paper, Coal, Chemicals, Fertilisers, Vanaspati, Asbestos Cement Sheets, Cycles, Plywood, Light Railway, Newspapers and Periodicals and controls a chain of industries situated in Bihar, U.P., Rajasthan, West Bengal and Kashmir; a keen student of Economics and Finance and deeply interested in statistical studies; strives for and believes in all-round industrial development through Indian enterprise for improvement in the people's standard of living; visited the Dutch East Indies (1936), Australia (1945) and U.S.S.R. (1954) as member, Indian Trade and Industrial Delegations; also visited the European countries, U.S.A., Canada, Japan, Norway, Sweden, etc.; Chairman and Dir.: Sahu Jain Ltd., Rohtas Industries Ltd., The Jaipur Udyog Ltd., S.K.G. Sugar Ltd., Pres.: Bihar Industries Assoc., Patna; Shri Ahimsa Prachar Samity, Calcutta; Governing Body Member, Cement Allocation and Coordinating Organisation; Ex-Pres.: Federation of Indian Chambers of Commerce and Industry, New Delhi; All-India Organisation of Industrial Employers, New Delhi; Indian Chamber of Commerce, Calcutta; Bihar Chamber of Commerce, Patna; Indian Sugar Mills Assoc., Calcutta; Indian Paper Mills Assoc., Calcutta; Rajasthan Chamber of Commerce & Industry, Jaipur; Eastern U.P. Chamber of Commerce & Industry, Allahabad; Employers' Asscn., Calcutta; Chairman-Trustee: Gobind Ballabh Pant Bhawan Trust, Calcutta; Rajendra Chhatrabas Samity, Calcutta; Trustee: Sahu Jain Trust; Founder Trustee, Bharatiya Gyan Peeth (Academy), Varanasi. Address: 11, Clive Row, Calcutta; 6, Sardar Patel Marg, New Delhi.

JAIN, Surendra Kumar, B.A. (Hons.), M.A. (Econ.), LL.M., Regional Coordinator for Asia, International Labour Office, Bangkok. *b.* Dec. 22, 1922; *Educ.*: Govt. Coll., Lahore; Univ. of Lucknow. Member, Cooperative Section, I.L.O. (1946-49); Secy., I.L.O., Indian Branch (1949-51); Member: I.L.O. Mission to Far East (1948-49); Technical Assistance Division (1951-56); Chief of Director General's Cabinet (1957-58); Dir., I.L.O., Middle East Office, Istanbul (1959-62); numerous missions to countries of Asia and the Near and Middle East to plan, negotiate and inspect I.L.O. technical assistance projects; Secy. to a number of I.L.O. Cttees.; represented I.L.O. at various national and international conferences. *Publications*: Contributions to the

International Labour Review and other publications and periodicals. Address : Bangkok Bank Building, 300, Silom Road, Bangkok (Thailand); or I.L.O., New Delhi or Geneva.

JAMBUNATHAN, M. R., Tamil writer. b. Aug. 23, 1896; *Educ.* : Madras. Editor of *Vedas & Upanishads* in Tamil; Short Story Writer, biographer, translator, Indologist, and research worker. *Publications* : *Life and Teachings of Mazzini*; *A. B. C. of Vedas*; Translation of *Sama, Yajur and Atharva Vedas*. Address : Radha Niwas, 375, First Road, Khar, Bombay-52.

JAMIR, R. C. Chitten, M.A., LL.B., L.S.G.D., Minister for Finance & Revenue, Nagaland, since March 1969. b. in Mokokchung Dist., Feb. 1926; *Educ.* : Mokokchung High School; Gauhati; Allahabad Univ. Joined Naga National Council, 1946; broke away from Phizo on use of violence; participated in first conference of Naga People's Convention, 1957; elected member, Select Cttee. of the Convention; member, N. P. C. delegation, Delhi, 1957; elected member, Exec. of N.P.C., 1959; member of Naga delegation to New Delhi, 1960; elected to the Interim Body, 1961; Member, Exec. Council, Naga Interim Body, 1961-63; elected M.L.A., Nagaland 1963; Min. for Agriculture, Nagaland, 1964-69. Address : Kohima : Mokokchung, Nagaland.

JAMIR, S. Chubatoshi, B.A., LL.B., Dy. Min. for Labour, Employment and Rehabilitation, Govt. of India, since Nov. 1967. b. Oct. 17, 1931; *Educ.* : Univ. of Allahabad. Secy., Naga People's Convention; mem.: Negotiating Body, N.P.C.; Interim Body, Nagaland, 1961; Chairman, Boundary Commission for Nagaland; elected to the Lok Sabha from Nagaland, 1962 & 1967; Parly. Secy. to the Min. of External Affairs, 1962-67; mem.: Indian delegation to the 17th Session of the U.N., 1962; A.I.C.C.; Leader of the delegation—173rd Session of the Governing Body of the ILO; Dy. Min. for Railways, March-Nov. 1967. Address : Mokokchung, Nagaland; New Delhi.

JAMMU and KASHMIR, Maharaja Karan Singh, Maharaja of (See under *Karan Singh, Maharaja*).

JASOKIE, John Bosco, Education Minister, Nagaland, since March 1969. b. 1926; *Educ.* : Kohima and Shillong. Joined Phizo's Naga National Council; Publicity Officer, NNC, till 1955; broke away from Phizo due to disagreement on use of violence for achieving success in the Naga political movement; was Secy., Naga People's Convention; Exec. Councillor till Dec. 1963; has been a Cabinet Minister since 1963. Address : Kohima.

JATTI, B. D., B.A., LL.B., Governor of Pondicherry, since 1968. b. Sept. 10, 1912, at Savalgi, Bijapur Dist.; *Educ.* : Bijapur Govt. High School; Rajaram Coll. and Sykes Law Coll., Kolhapur. Practised at Jamkhandi; was Min., Jamkhandi State; became its Chief Min.; nominated M.L.A., Bombay to represent the merged areas; Parly. Secy. to Mr. B. G. Kher, then Chief Minister of Bombay; Dy. Min. for Health and Labour, Bombay, 1952; M.L.A., Mysore after the reorg. of States; Chairman, Land Reforms Cttee.; Chief Min., Mysore State, 1958-62; re-elected, M.L.A., Mysore from Jamkhandi constituency, 1962 and 1967; Min. for Fin., 1962-65; Min. for Food, 1965-67. Address : Pondicherry.

JAYKRISHNA Harivallabhdas, Industrialist; Chairman : Gujarat State Fertilizer Co. Ltd.; Shri Ambica Mills Ltd.; S. L. M. Maneklal Industries Ltd.; Nirlon Synthetic Fibres & Chemicals Ltd.; Vulcan Insee. Co. Ltd. b. Oct. 31, 1919; *Educ.* : Calcutta and Ahmedabad.

Dir. : New India Industries Ltd.; Central Bank of India Ltd. and several other Cos.; Congress, M.L.A., Bombay from Ahmedabad City, 1952; donated about Rs. 20,00,000 to Ahmedabad Educ. Soc., Gujarat Univ. and other instts.; has toured extensively abroad; Employers' Rep. on behalf of the Govt. of India to I.L.O. Confce. at Geneva; Pres. : Gujarat Chamber of Commerce, 1961-62; Ahmedabad Mill Owners Assoc., 1956-57; 1960-61; member, Adv. Board of the Industries Devpt., Gujarat State; Exec. Chairman, Gujarat Cancer Society; Chairman, Gujarat State Film Advisory Cttee.; Mayor, Ahmedabad, 1961-65. Address : Shahibag, Ahmedabad 4.

JHA, Aditya Nath, B.A. (Hons.), M.A., LL.B., I.C.S., Lt. Governor, Delhi, since Sept. 7, 1966. b. Aug. 18, 1911; *Educ.* : Allahabad and Oxford. Joined the I.C.S. in 1936 at Faizabad, U.P.; worked in the Foreign & Political Deptt. of the Govt. of India, 1939-42; worked in different capacities as Secy.: Agr., Irrigation, Plng.; Food Production Commr., Devpt. Commr. in U.P. till 1954; Chief Secy., Govt. of U.P., 1954-58; Vice-Chancellor, Sanskrit Univ., Varanasi, 1958-60; Dir., National Academy of Admn., Mussorie, 1959-62; Secy., Plng. Commn., 1962-63; Secy., Union Deptt. of Defence Production, 1963-64; Secy., I. & B., Govt. of India, 1964-66; Ch. Commr., Delhi, March-Sept. 1966. Address : Maya, George Town, Allahabad (U.P.); New Delhi.

JHA, Binodanand, Ex-Chief Minister, Bihar. b. 1900; *Educ.* : Calcutta. Jailed five times during his political activities; elected M.L.A., Bihar, 1936; Parliamentary Secy., 1937-39; Minister, for L.S.G. and Public Health, Bihar, 1946; Leader, Indian delegation to the 44th Session of the I.L.O., 1960; nominated member, All-India National Integration Cttee.; Revenue Minister, Bihar; elected leader, Bihar Leg. Congress Party, 1961; Chief Min., Bihar, 1961-63; resigned under the 'Kamaraj Plan', Aug. 1963; has been taking active interest in the trade union movement. Address : Patna.

JHA, Lakshmi Kant, B.A. (Cantab.), I.C.S. (Retd.), Governor, Reserve Bank of India since July, 1967. b. Nov. 22, 1913; *Educ.* : Hindu Univ., Banaras and Trinity College, Cambridge. Dy. Secy., Govt. of India Supply Deptt., 1942-46; Chief Conlrr. of Imports and Exports, 1947-50; Chairman of the Contracting Parties to the G.A.T.T., 1957-58; Chairman, U.N. Interim Cttee. for Co-ordination of Intn'l. Commodity Arrangements, 1959-61; Jt. Secy., Min. of Commerce and Industry, 1950-56; Secy., Min. of Heavy Industries, 1956-57; Addl. Secy., Min. of C. & I., 1957-60; Secy., Dept. of Economic Minister, 1964-67; Governor for India in the I.M.F., since July 1969. *Publications* : *India's Foreign Trade*, Parts I & II. Address : Reserve Bank of India, Bombay 1.

JHAVERI, Mansukhlal Maganlal, M.A., Gujarati Poet & Critic. b. Oct. 3, 1907, at Jamnagar; *Educ.* : Nawanagar High School, Jamnagar; St. Xavier's Coll., Bombay; Samaldas Coll., Bhavnagar. Fellow, Bombay Univ., 1949-59; Member : Board of studies in Gujarati of the Univs. of Bombay, Poona, S.N.D.T., Baroda & Gujarat; member, Adv. Board for Gujarati & Gen. Council, Sahitya Akademi, New Delhi; Producer, Spoken Word, Gujarati, A.I.R., Bombay, 1956-59. *Publications* : *Poems : Chandradoot ; Phool Dol ; Aradhana ; Abhisar ; Kavyasushama ; Criticism : Thoda Vivechan Lekho ; Paryeshana Kavyavimarsha ; Abhigama ; Literary History : Gujarati Sahityanun Rekha Darshan ; Translations of Abhijnana Shakuntalam and Hamlet.* Address : 1/7, Samant Block, Cama Road, Andheri, Bombay 58.

JOHNSON, Leslie James, M.A. (Punjab), I.C.S., Chairman, Oil and Natural Gas Commn., since May 1966. *b.* Sept. 8, 1914; *Educ.*: St. Fidelis' School, St. George's Coll., Mussoorie, U.P.; Govt. Coll., Lahore. Joined the I.C.S., 1938; Held various positions in the U.P. Govt. till he became Regional Food Conlrr., 1947-48; Dt. Magistrate, Banda, 1948-49; Dir. of Civil Supplies, Delhi, 1950-52; Chief Secy., Delhi State, 1952-54; Dy. Secy., Min. of Rehab., 1954-55; Chief Settlement Commr. and Jt. Secy., Govt. of India, 1955-59; Chief Adm'or., Dandakaranya Project, Dec. 1959-June 1964; Dir.-Genl. of Relief, Min. of Rehab., 1964-65; Addl. Secy., Union Deptt. of Rehab., 1965-66; is also a good painter. *Address*: Tel Bhavan, Dehra Dun.

JONES, Wilson Lionel Garton, Padma Shri (1965), leading Billiards Player, since 1950. *b.* May 2, 1922; *Educ.*: Bishop's High School & St. Vincent's High School, Poona. National Billiards Champion of India, 1950-52, 1955, 1957, 1960, 1961, 1963-65; National Snooker Champion of India, 1948, 1952, 1954, 1958, 1960; represented India in World Billiard Championships, 1951, 1952, 1954, 1958, 1960, 1962, 1964, 1966 and World Snooker Championships in 1963; World Billiards Champion (Calcutta) 1958, (Auckland) 1964; Arjuna Award, 1963; retd. from all competitions, 1967. *Address*: No. 2, Wallace Flour Mills Co., Ltd., Sleater Road, Bombay.

JOSHI, Harideo, Min. for Industries, Mines, Power and Irrigation, Rajasthan, since April 28, 1967. *b.* Dec. 17, 1921. Started career as an ordinary teacher of Sewa Sangh in Dungarpur; member, A.I.C.C. and P.C.C., 1949; Gen. Secy., Rajasthan P.C.C., 1950-60; M.L.A., Rajasthan, since 1952; Chief Whip, Rajasthan Assembly Cong. Party, 1957-63; Chairman, P.A.C., Rajasthan Assembly, 1957-65; Founder Editor, Daily 'Navyug', Jaipur; also wkg. Pres., Rajasthan P.C.C., since May, 1962; Min. of Publicity, Mines and Public Health, Rajasthan, 1965-67. *Address*: Nai Abadi, Banswara; B-4, M.L.A. Quarters, Jaipur.

JOSHI, K. L., M.A. (London), Vice-Chancellor, Univ. of Indore, since Nov. 1967. *b.* Sept. 9, 1907; *Educ.*: Marwari Vidyalaya High School, Bombay; Wilson Coll., Bombay; Univ. Coll., London. Education Officer and Asstt. Educational Advisor, Min. of Education, Govt. of India, 1945-55; Chief, Educational Division, Planning Commission, Govt. of India, 1955-64; Mem. of various education ctees., Min. of Education, Planning Commn. and U.G.C.; Secy., Panel on Education, Planning Commn., 1956-63; Secy., U.G.C., 1964-67; travelled widely abroad to study educational systems in different countries, 1965-66. *Publications*: *Some notes on University Education*. *Address*: Vice-Chancellor, University of Indore, Indore (M.P.).

JOSHI, Puran Chandra, M.A., LL.B., Communist Leader and member, National Council, C.P.I.; Journalist. *b.* April 14, 1907; *Educ.*: Allahabad Univ. Joined the C.P.I. as a student, Dec. 1928; convicted in Meerut Conspiracy case, 1929-34; member, Central Cttee. and Gen. Secy., 1934-47; was in the Central Cttee. since 1956; Editor, *New Age*, 1958-62; is in the U.P. State Council and Executive; is working on a scientific history of Indian Communism. *Publications*: *Communist Reply to Working Committee*; 1857 Rebellion. *Address*: 7/4, Asaf Ali Road, New Delhi.

JOSHI, Ramchandra Bhikaji, M.A. (Bom.), Kavyatirtha (Cal.), Marathi Writer; Dir., Marathi Samshodhan Mandal, Bombay. *b.* June 26, 1903; *Educ.*: Holkar Coll., Indore; Allahabad Univ.; Bombay Univ.;

Kavyatirtha (in Sanskrit Poetry and Drama). Started writing in 1932-33; member, P.E.N., All India Centre. *Publications*: Two volumes of short stories in Marathi & two stories translated from Urdu; two volumes of Travelogues in Marathi; a volume of essays in criticism in Marathi; a novel translated from Urdu. *Address*: Shalwala Building No. 1, College Street, Bombay 28.

JOSHI, Shridhar Mahadev, B.A., LL.B., Politician; ex-Chairman, Samyukta Socialist Party; Social Worker. *b.* Nov. 12, 1904; *Educ.*: Ratnagiri; New English School, Fergusson Coll. and Poona Law Coll., Poona. Joined Congress, 1930; often jailed in the freedom movement; Founder Mem., Cong. Socialist Party; Member, Bombay Assembly, 1952-62; Gen. Secy., Samyukta Maharashtra Samiti; Gen. Secy., All India Defence Employees Federation. *Address*: 1170, Sadashiv, Poona 2.

JOSHI, Umashankar Jethalal, M.A.; Bharatiya Jnanpith Award for 1967 with Dr. K. V. Puttappa, Gujarati Poet, Critic, Essayist; Vice-Chancellor, Gujarat Univ., since Nov. 1966. *b.* July 21, 1911; *Educ.*: Bamna; Idar High School; Gujarat Coll.; Elphinstone Coll. Member: Sahitya Akademi, Gen. Council and Exec. Board; visited: China, Indonesia, Malaya, 1952; U.S.A. and U.K. as a member, Govt. of India Team to study Gen. Educ., 1956; attended the 29th World P.E.N. Congress, Japan, 1957; member, Indian Cultural delegation to U.S.S.R., 1961. *Publications*: *Vishva Shanti*; *Gangotri*; *Nisheeth*; *Gul-e-Poland* (Tr.); *Prachina*; *Atithya*; *Sapna Bhara*; *Shaheed*; *Shravani Melo*; *Visamo*; *Goshthi*; *Ughadi Bari*; *Sama-Samvedan*; *Akho: a Study*; *Abhiruchi*; *Kavini Sadhana*, *Shri ane Saurabh*; *Gujarat in the Puranas*; Translations: *Uttar-Ramacharita*, *Sakuntala*. *Address*: Vice-Chancellor's House, Ahmedabad 9.

JOSHI, Vishwanath Janardan, B.Sc. (Elec. & Mech. Eng.), M.S. (Met. Eng.) (MONT. U.S.A.), Master of the Mint, India Govt. Mint, Bombay, since March 15, 1966. *b.* May 8, 1918; *Educ.*: Elphinstone Coll., Bombay; Banaras Hindu Univ.; Montana Univ., U.S.A. Stores Officer, Tisco, 1943-48; awarded Govt. Scholarship for advanced studies overseas, 1948-50; Asstt. Dir. of Industries, Govt. of Bombay, 1951-53; Asstt. Mint Master, Bombay and Calcutta, 1954-57; Deputy Mint Master, Hyderabad Mint, 1957-60; General Manager, India Govt. Silver Refinery, Calcutta, 1960-66. *Address*: Mint House, Ballard Road, Bombay 1.

JOSHUA, Gurram, Ubhaya Bhasha Praveena (Andhra), M.L.C., Telugu Poet. *b.* Sept. 28, 1895; *Educ.*: Vinukonda, Guntur Dt. Started career as a school teacher; Telugu Pandit, 1920-42; Song Publicity Officer, Govt. of Madras, 1942-45; Producer, A.I.R., Madras, 1956-60; awarded the titles of Kavita Visarada, Kavi Kokila, Madhura Srinadha, Nava Yuga-Kavi-Chakravarthi, Viswa-Kavi-Samrat, etc.; All India Sahitya Akademi's award for the best work in Telugu Literature for his book *Kristu Charitra*, 1965; member, A.P. Sahitya Akademi. *Publications*: *Firadausi*; *Gabbilamu*; *Bapuji*; *Netaji*; *Kotta Lokam*; *Kristu Charitra*; *Khanda Kavyalu* (7 parts), etc. *Address*: Gopalakrishnaiah Tota, Guntur 2.

KAKAR, H.E. Mr. Jagdish Chandar, B.A. (Hons.), High Commissioner to Zambia. *b.* Jan. 1, 1915; *Educ.*: Bishop Cotton School, Simla; Govt. Coll., Lahore; Univ. Coll., London. Indian Air Force (Administrative and Special Duties Branch), 1941-47; I.F.S., since 1948; First Secy.: Kabul, Karachi, Washington; Dir., Min. of Ext. Affairs; Counsellor, London; High Commr. for India in Ghana (concurrently accredited as High Commr. to Sierra

Leone and Amb. to Liberia, Guinea and Mali), 1962-66; Amb. to Hungary, 1966-69. *Address*: C/o Ministry of External Affairs, New Delhi.

KAKATI, Satis Chandra, B.A. (Hons.) (Econ.), Concurrently Editor, *The Assam Tribune* (English Daily) since 1963 & *Asam Bani* (Assamese Weekly), since 1954. *b.* Oct. 1914; *Educ.*: Govt. Cotton Coll., Gauhati. Correspondent of Hindusthan Standard and U.P., 1936-47; Asstt. Dir. of Publicity, Govt. of Assam, 1948-51; Asstt. Editor, *Assam Tribune*, 1951-63, Chairman, Gauhati Municipal Board, 1962-63; Pres., Assam Wkg. Journalists Assoc., 1963-64; Member, Stg. Cttee., AINEC, 1963-64; travelled in U.K., 1959, U.S.A., 1960, West Germany, U.K. and France, 1963. *Publications*: *Jawaharlal Nehru*; *Discovery of Assam*. *Address*: Hillside Road, Uzanbazar, Gauhati, Assam.

KALELKAR, Dattatreya Balkrishna (Acharya Kakasaheb), Padma Vibhushan, 1964; Sahitya Vachaspati; B.A. (Bombay), Academician. *b.* Dec. 1, 1885; *Educ.*: Fergusson Coll., Poona. Educationist; Vice-Chancellor, Gujarat Vidyapith, 1928-34; edited Mahatma Gandhi's Weeklies & Magazines; worked for the spread of Hindi in India; Pres., Hindustani Talimi Sangh (Basic Educ. till 1957), Hindustani Prachar Sabha; Chairman, Backward Classes Commn., 1953-55; Pres.: Gujarat Sahitya Parishad, 1959; Gandhi Hindustani Sahitya Sabha, New Delhi; M.P. (Rajya Sabha), 1952-64; knows 7 languages; travelled extensively all over the world incl. the Himalayas; won National Award, 1966, for his book *Jeevan Vyavastha*. *Publications*: 50 Books in Gujarati, Marathi, Hindi and English. *Address*: Sannidhi, Rajghat, New Delhi.

KAMALADEVI Chattopadhyay, Smt., Politician and Social Worker; Ex-Chairman, All-India Handicrafts Board. *b.* 1903; *Educ.*: Mangalore, Bedford Coll., School of Economics, London. Participated actively in freedom struggle, 1929-44; imprisoned several times; member, All India Cong. and Wkg. Cttee., 1946-49; Orgg. Secy., then Pres., All India Women's Cfee.; Vice-Pres., World Crafts Council; founder, Indian National Theatre Centre of the Intn'l. Theatre Instt.; travelled extensively; represented India at Intn'l. Cfees., U.N. Comms.; Magsaysay award for Community Leadership, 1966; Watumal Award, 1962. *Publications*: *Indian Handicrafts*; *Socialism and Society*; *Awakening of Indian Womenhood*; *Towards a National Theatre*, etc. *Address*: 2, Canning Lane, New Delhi; 6, Chateau Marine, Marine Drive, Bombay 1.

KAMARAJ, K., M.P. (Lok Sabha), Ex-Pres., Indian National Congress; Ex-Chief Min., Madras State. *b.* 1903; *Educ.*: Virudhunagar, Ramnad Dist., Tamil Nadu. Entered public life 1920; courted jail in the freedom movement; elected member, Wkg. Cttee., Tamil Nad Cong., and member, A.I.C.C., 1931; elected Secy., T.N.C.C., 1935; elected to Madras Legis. Assembly, 1937 and again in 1946; elected Chairman, Virudhunagar Municipality, 1941; under detention, 1942-45; elected to the Constituent Assembly of India, 1947; chosen as a member, All-India Cong. Wkg. Cttee., 1949; elected to Parliament, 1951 and in bye election from Nagercoil, 1969; Pres., T.N.C.C., 1939-54; elected Leader, Madras Legis. Cong. Party, March 30, 1954, 1957 and 1962; Chief Min., Madras, 1954-63; sponsored the "Kamaraj Plan" for revitalising the Cong. org.; resigned under this plan for party work, Oct. 2, 1963; visited U.S.S.R., Bulgaria, Hungary, Czechoslovakia, East Germany and Yugoslavia, July-Aug. 1966. *Address*: No. 8, Tirumalai Pillai Road, Tyagaraya Nagar, Madras 17.

KAMATH, Hari Vishnu, B.Sc. (Hons.), Politician. *b.* July 13, 1907; *Educ.*: Mangalore, Presidency Coll., Madras; I.C.S., 1929. Served in the I.C.S., 1930-38; resigned for political reasons; joined Congress, then the National Ping. Cttee. as Secy. and subsequently the Forward Bloc as its Gen. Secy.; was in prison, 1940-45; elected member, Constituent Assembly, 1946; elected to Lok Sabha on P.S.P. ticket, 1955 & 1962; elected Chairman, P.S.P., M.P., Feb. 1958; Delegate: Belgrade Cfee. of the Socialists Alliance of Wkg. People of Yugoslavia, April 1960; visited U.K. and U.S.A. to observe the Gen. Election and Presidential election, respectively, 1964, Taiwan, 1966; apptd. member, Adm. Reforms Commn., Jan. 1966; Chairman, Parly. Board, PSP, 1965; visited France, U.K., Canada, U.S.A. to study Administrative Methods and Techniques, 1967. *Publications*: *Communist China Colonizes Tibet, Invades India*, Oct. 1959. *Address*: Dhantoli, Nagpur.

KANE, Pandurang Vaman, M.A., LL.M., LL.D. (Allahabad, Poona & Bombay Univs., Honoris Causa), Bharat Ratna (1963), Hon. Degree of Doctor of Laws, Bombay Univ., 1963, Rabindranath birth Centenary plaque by the Asiatic Society, 1967, Sanskrit Scholar; Advocate; National Research Prof. of Indology, since Aug. 15, 1959. *b.* May 7, 1880; *Educ.*: S. P. G. Mission High School, Ratnagiri Dist.; Wilson Coll. and Govt. Law Coll., Bombay. Life member and for many years Vice-Pres., Bombay Asiatic Soc.; Vice-Chancellor, Bombay Univ., 1947-49; Fellow, London School of Oriental Studies; Govt. of India's rep. to the Intn'l Cong. of Orientalists at Paris, 1948, Istanbul, 1951, Cambridge, 1954; nominated M.P., 1953-59; Sahitya Akademi award of Rs. 5,000 for his 4th volume of the *History of Dharmasastra*, as the best work on Sanskrit Literature during 1953-56. *Publications*: *History of Sanskrit Poetics*, *History of Dharmasastra*, Vols. I-V (two parts), *Hindu Customs and Modern Law* and others. *Address*: Angre's Wadi, Bombay 4.

KANERIA, Raghav, Diploma in Sculpture & Diploma and M.A. (Art) from Royal Coll. of Art (Lond.), Professional Sculptor. *b.* March 19, 1936 at Anida, Saurashtra; *Educ.*: Fine Arts College, Baroda, Royal Coll. of Art, Lond., Govt. of India Scholar, 1960-62. Exhibited in the Paris Biennale, 1959; Commonwealth Art Exhibition, London, 1962; Expo '67 Montreal (Canada); won several awards — Lalit Kala Akademi Award 1959 and 1963; First prize at the Gujarat State Art Exhibition, Surat, 1962; Gold medal of the Bombay Art Society, 1962, etc; won Sir Robert Sainsbury Award. *Address*: C/o Jyoti Bhatt, Fine Arts College, Baroda 2.

KANUNGO, Nityanand, B.A., B.L., Governor of Bihar, since Dec. 7, 1967. *b.* May 4, 1900; *Educ.*: Ravenshaw Coll., Cuttack; Univ. Coll., Calcutta. Min. for Home, Orissa Govt., 1937-52; Pres., All-India Village Industries Assoc., Orissa, 1946; Leader, Indian delegation to Intn'l. Rice Commn., 1952; member, A.I.C.C.; Union Dy. Min., Commerce and Industry, Sept. 1954-Aug. 1955; Union Min. for Industries, Aug. 1955-June 1956; Min. of C. & I., 1956-1957; Union Commerce Min., 1957-62; Min. of Industry, 1962-64; Union Min. of Civil Aviation, June 1964-Aug. 1965; Governor of Gujarat, Aug. 1965-Dec. 1967. *Address*: Governor's Camp, Patna.

KAPOOR, Prithviraj, B.A. (Punjab), Fellow, Sangeet Natak Akademi, Actor. *b.* Nov. 3, 1906; *Educ.*: Middle School, Samundari; Khalsa School, Lyalpur; Edward's Coll., Peshawar. Acted in the first Indian talkie *Alamara*; toured with Repertoire of 14 plays Shakesperian and others — Poona, Hyderabad, Bangalore, Mysore and

Calcutta; New Theatres, 1933-39; worked in 12 N.T. films *Vidyapati*, *Manzil*, *Seeta*, etc.; joined Ranjit Studios, Bombay, 1939; worked in seven films like *India Today*, *Vish Kanya*, *Pagal*, etc.; got the special award for acting in *Aasman Mahal* from the National Academy of Arts and Muses, Czechoslovakia, July 1966; ran his own theatre company Prithvi Theatres for 16 years; produced several plays — *Shakuntala*, *Ahooti*, *Ghaddaar*, *Kisans Gave*, etc. Address : 26, Janaki Kutir, Juhu Church, Bombay 54.

KAPOOR, Ranbir Raj Kapoor, Producer, Dir., Actor and Editor. *b.* Dec. 14, 1924; *Educ.* : Calcutta and Bombay. Produced the films : *Aag*, *Barsaat*, *Awara*, *Shree-420*, *Boot Polish*, *Aah*, *Jagte Raho*, *Jis Desh Men Ganga Behti Hai*, *Sangam*, *Mera Nam Joker* under production; won the Filmfare award for best acting (*Anari*), 1959, (*Jis Desh Men Ganga Behti Hai*), 1961; direction (*Sangam*), 1964; editing (*Sangam*), 1964. Address : Devnar Cottage, Devnar Farm, Trombay Road, Chembur, Bombay 71.

KARAN SINGH, Maj.-Gen. Maharaja Dr., M.A., Ph.D., Hon. Doctor of Letters, Banaras Hindu Univ. (1967), Min. for Tourism and Civil Aviation, Govt. of India, since March, 1967. *b.* March 9, 1931; *Educ.* : Doon School; Univ. of J. & K.; Delhi Univ. Appointed Regent, J. & K., 1949; elected Sadar-i-Riyasat (Head of State) by J. & K. Leg. Assembly, Nov. 1952; recognised by the President of India and assumed office Nov. 17, 1952; re-elected 1957 & 1962; Secy., Jawaharlal Nehru Memorial Fund, 1966; Governor, J. & K. State, April '65-March '67; elected to the Lok Sabha from Udhampur Constituency, 1967. Address : The Palace, Srinagar; The Palace, Jammu; Mansarovar, 3, Nyaya Marg, New Delhi.

KARANJIA, Russy K., B.A. (Hons.), Publisher & Journalist. Editor-in-Chief, *Blitz News Magazine* (Weekly), published in English, Hindi & Urdu. *b.* Sept. 15, 1912; *Educ.* : St. Xavier's High School & Wilson Coll., Bombay. Took Trg. in journalism in India & U.K. Commenced journalistic career as reporter, sub-editor, spl. correspondent with the *Times of India* publications; Dy. Editor, *Sunday Standard*; Editor-in-Chief, *Sunday Standard & Morning Standard* (now *Indian Express*); started *Blitz* in Feb. 1941; Editor & Dir., *Blitz Publications*; Author of *How Others See Us*, *Seato*, *Arab Dawn*, *Dawn or Darkness*, *The Mind of Mr. Nehru*, *The Philosophy of Mr. Nehru*, *How Nasser Did It*, etc.; his intimate interviews with revolutionary leaders like Jawaharlal Nehru, Nikita Khrushchov, Fidel Castro & Gamal Nasser earned him the title of "Chronicler of revolutions & biographer of revolutionaries"; presented a machine-gun named "Port Said" by Pres. Nasser of U.A.R. & the award of the Republican Order of Merit (Grade I), the highest honour of the State. Address : Framroze Court, Netaji Subhas Road, Bombay.

KARANTH, K. Shivarama, Hon. Doctorate of Letters, Karnatak Univ. and Mysore Univ., 1963, Padma Bhushan (1968), Kannada Author and Publisher. *b.* Oct. 10, 1902; *Educ.* : Board High School, Coondapoor, South Kanara, joined the N.C.O., Feb. 1922; took to writing, 1924; made experiments in child education, drama and dance; pursued literary profession. *Publications* : Wrote a large number of plays and novels; *Balaprapanch*, 3 Vols. — Encyclopaedia for children. Some 20 novels, 20 or more plays, Kannada-Kannada dictionary, a monogram on Yakshagana dance drama, Popular Science Encyclopaedia in Kannada. Address : Puttur (S. Kanara).

KARUNANIDHI, M., Chief Minister, Tamil Nadu, since Feb. 1969. *b.* June 3, 1924, at Thirukkuvalai, Thanjavur Dist.; *Educ.* : Thiruvarur Board High School. While a

student, joined the Dravida Kazhagam; organised the Students movement of the Dravida Kazhagam, 1942; founded with Shri Annadurai and others, the Dravida Munnetra Kazhagam; founder-Editor, *Murasoli*, a political Tamil daily; a popular playwright and is widely known as "Kalaingnar" & courted jail several times; has written scripts for a number of Tamil films; M.L.A., Tamil Nadu, since 1957; was Dy. Leader, D.M.K. Party in the last Assembly; acted as the leader of the opposition; Min. for P.W.D., Madras, 1967-69; elected Leader D.M.K. Leg. Party, Feb. 9, 1969; Pres., D.M.K., since Aug. 1969. Address : Chief Minister, Fort St. George, Madras 9.

KASHYAP, N. N., M.A., I.C.S., Chairman, Indian Oil Corp. Ltd., since Aug. 1966. *b.* May 26, 1917; *Educ.* : Govt. Coll., Lahore. Joined the I.C.S., 1941; held various assignments before becoming Finance Secy. at Chandigarh; Member, Bhakra Nangal Control Board and Chairman, Punjab Finance Corp.; Commissioner and Home Secy., Punjab, 1956-58; Jt. Secy., Min. of Steel, Mines and Fuel, 1958-63; was Dir., National Mineral Dev. Corp., STC, National Industrial Dev. Corp. and part-time Chairman, Pyrites & Chemicals Dev. Corp.; Jt. Secy., Min. of Petroleum & Chemicals, 1963-64; was part-time Chairman, Cochin Refineries; Managing Dir., IOC in charge of refineries at Gauhati, Barauni and Jawaharnagar (Baroda), 1964-66; Dir. Gen. of Resettlement, Cabinet Sectt., 1965-66. Address : Indian Oil Corp. Ltd. (Chairman's Office), Link House, B. S. Zafar Marg, New Delhi-1.

KATRE, Dr. Sumitra Mangesh, M.A., Ph.D. (London), Dir., Deccan Coll. Post-graduate and Research Instt., Poona, since 1942; Editor, Dictionary of Sanskrit on Historical Principles. *b.* April 11, 1906; *Educ.* : Ganapathi High School and Govt. College, Mangalore; Presidency Coll., Madras; School of Oriental Studies, London Univ., Orientalisches Seminar, Univ. of Bonn. Prof. of Sanskrit Languages, N. Wadia Coll., Poona, 1933-34; S. P. Coll., Poona, 1937-39; Prof. of Indo-European Philology, Deccan Coll. Post-graduate and Research Instt., Poona (1939-42); visiting Prof. of Linguistics, Texas Univ., 1966. *Publications* : Founder-Editor, *New Indian Antiquary and Oriental Literary Digest*, & of several commemorative volumes; *Formation of Konkani*; *Paninian Studies*; *Some Problems of Historical Linguistics in Indo-Aryan*, etc. Address : Deccan College, Poona 6.

KATT, Balbirsingh, Diploma in Fine Arts (Santiniketan), Sculptor; Lecturer in Sculpture, Faculty of Fine Arts, B.H.U. *Educ.* : Bombay, Punjab; Visvabharati Univ., Santiniketan, 1960-64, 66-67 and Baroda 65-66; won gold medal in sculpture at Academy of Fine Arts, Calcutta, 1963-64; silver medal in graphics at W. B. Youth festival in honour of World Youth Congress at Helsinki, 1962; first prize in sculpture at Gujarat State Art Exhibition, 1966; National Award in Sculpture at National Exhibition of Art, 1967; received Pres. of India's Plaque for best exhibition at All-India Fine Arts and Crafts Society's Annual Show, 1967. *Publications* : Writes frequently for literary and art periodicals. Address : 5/1, Tilak Nagar, New Delhi.

KAUL, Triloki Nath, B.A. (Hons.) (Punjab), LL.B. (Alld.), LL.M. (London), Fellow, Royal Soc. of Arts, London (1963), Hony. Fellow, Kings Coll., London Univ., I.C.S., Foreign Secretary, Govt. of India, since Nov. 7, 1968. *b.* Feb. 8, 1913; *Educ.* : S. P. Coll., Srinagar; Prince of Wales Coll., Jammu; Law Faculty, Allahabad; King's Coll. & School of Oriental Studies (London Univ.). Passed I.C.S., 1936; Secy., Indian Council of Agril. Research, Govt. of India, 1945-47; First Secy., Indian

Embassy: Moscow, 1947-49; Washington, 1949-50; Dy. Secy.-Genl., Indian Delegation to U.N., 1947; Counsellor & later Min., Indian Embassy, Peking, 1950-53; Jt. Secy., Min. of Ext. Affairs, Govt. of India, 1953-56; Chairman, Intn'l Commn., and leader, Indian delegation, Viet Nam, 1957-58; Amb. to Iran, 1958-60; Dy. and Ag. High Commr., London, 1960-62; Amb. to U.S.S.R. and Mongolia, 1962-66; Secy., External Affairs Min., 1966-68. Address: Ministry of External Affairs, New Delhi.

KAUR, Smt. Prabhjot, B.A., Punjab, Padma Shri (1967), M.L.C., Punjab; Sahitya Akademi Award, 1964, Rajya Kavi by Punjab Govt., 1963, Sahitya Shiromani, 1963. "Grand Prix De la Rose De France", Poet and writer. b. July 6, 1927; Educ.: Punjab Univ., Lahore. Member, National Commn. of India for UNESCO; is associated with many social and welfare orgs.; her works have been translated into Persian, French, Russian, English, Italian and Rumanian; has rendered into Punjabi works as Dr. Radhakrishnan's *My Search for Truth* and *An Idealist View of Life*; *Life of Vivekananda* by Romain Rolland, on behalf of Sahitya Akademi; rep. of the Punjabi language and the women writers of India at national and intn'l. literary seminars and cfecs. Publications: Poetry: *Lat Lat Jot Jage*, 1943; *Khari Pabbi*, *Ban Kapasi*, *Pankheru*, *Do Rang*; Short Story: *Kinke*, *Aman De Nan*; has published about 35 works so far. Address: C/o Brigadier Narenderpal Singh, Military Attache, Indian Embassy, Paris.

KEATING, His Excellency Mr. Kenneth B., U.S. Ambassador to India since April 1969. b. May 18, 1900 in Lima, New York; Educ.: B.A. degree from the Univ. of Rochester, 1919 and B.L. from Harvard, 1923. Served in the U.S. Army during World War I as a private and sergeant and in World War II as a major and brigadier; member, U.S. House of Representatives, 1947-53 and 1957-59; member of the Senate from New York, 1959-64. Address: Shanti Path, Chanakyapuri, New Delhi 21.

KESAVAN, B. S., M.A. (Lond.), Diploma in Librarianship (Lond.), Padma Shri (1960), Director, Indian National Scientific Documentation Centre; Hon. Library Advisor to the Govt. of India; Chairman: Doc. Sectional Cttee. (EC2), ISI; Board of Studies of Doc. and Reprography Trg. Course, CSIR; Member, U.G.C. Cttee. on Library Science; visiting Prof., Dept. of Lib. Science, Delhi Univ. b. May 10, 1909; Educ.: Mysore and London Univs. Librarian, National Library for nearly 15 years; Scientific and Industrial Research; Asstt. Secy., C.S.I.R.; was member, International Advisory Cttee. on Bibliography, Documentation and Terminology appointed by the UNESCO; was Pres., Indian Library Assoc., Vice-Pres., Indian Assoc. of Special Libraries and Information Centres; Hon. Member, Indian Assoc. of Special Libraries & Information Centres. Publications: *National Library of India*. Address: Director, INSDOC, Hillside Road, New Delhi 12.

KESKAR, Dr. Balkrishna Vishwanath, D.Litt. (Paris), 1935, Chairman: National Book Trust, India, since June 4, 1962; Cement Corp'n. of India. b. 1903; Educ.: Poona, Hyderabad, Banaras (Kashividyapith) and Paris. Congress worker in the U.P. since 1920; Gen. Secy., Indian National Cong., 1946; elected to the Constituent Assembly from U.P., Dec. 1947; Member, Indian delegation to the U.N. Gen. Assembly, 1950; widely travelled in America, Europe and the Far East; M.P., Lok Sabha, 1952-62; Dy. Min. for Ext. Affairs, 1948-52; Min. of Information and Broadcasting, 1952-62; member, Foreign Affairs Sub-Cttee. of Cabinet, 1958-62; Chairman, Road Transport Taxation Enq. Cttee., Union

Min. of Transport, 1965-67. Address: 3, Kushak Road, New Delhi 11.

KHADILKAR, R. K., B.A., LL.B., Deputy Speaker, Lok Sabha, since March 28, 1967. b. Dec. 15, 1905; Educ.: Fergusson and Law Colls., Poona, Univ. of Bombay. Social and political worker; member, Poona Univ. Court; Indian National Congress, 1930-48; M.P.C.C.; Founder-member, Congress Socialist Party, 1934; Mg. Editor, *Lokshakti*, Congress Daily, 1939-40; served several terms of imprisonment, 1930-45; left Congress and organised All India Peasants and Workers Party, 1948; its Gen. Secy., 1953; rejoined Congress, 1962; member, Lok Sabha, since 1957; member and Chairman, P.A.C., Lok Sabha; visited U.S.A. as member, Parliamentary Delegation, 1963; visited U.S.S.R. and German Democratic Republic, 1966; visited Czechoslovakia, Italy, U.S.S.R., U.S.A., Japan, China, Romania and German Democratic Republic. Publications: *Nava Cheenchya Nirmitchi Roopresha*. Address: 'Pushpak', Laxmi Road, Poona 2; 1, Tughlak Road, New Delhi 11.

KHAIRAGARH, Rani Padmawati Devi, Rani of: M.P., Social worker. b. July 17, 1918, at Pratabgarh, U.P.; Educ.: Privately. Founder, Indira Kala Sangit Viswavidyalaya; Founder Pro-Chancellor, Viswavidyalaya; member: Board of Governors, Scindia Kanya Vidyalaya, Gwalior; Governing Body, All-India Women's Educ. Fund Assoc.; Pres.: Mahila Vibhag, Rashtra Bhasha Prachar Samiti, M.P.; has widely travelled in India and abroad; attended, Plenary Session, 13th and 14th World Health Assemblies, Geneva, 1960; New Delhi, 1961; M.L.A., M.P., 1952-67; Min. for Social Welfare, M.P., 1963-64 & for Local Govt., 1964-67; leader, Intn'l Cfce. of Social Work, Athens, 1964; M.P. Lok Sabha from Rajnandgaon Constituency, 1967. Address: 225, Rouse Avenue, New Delhi 1; Kamal Vilas, Khairagarh, M.P.

KHAITAN, Matadin, Business man. b. May 1913. Is Cttee.-member, Calcutta Stock Exchange Assoc.; Indian Sugar Mills Assoc.; Life-member, Indian Red Cross Soc.; member: Devpt. Council for the Sugar Industry, Govt. of India; Indian Sugar Cane Development Council, New Delhi; Dir.: Matadin Khaitan & Co., Ltd.; East End Paper Industries Ltd.; Vegetable Products Ltd.; Hind Sugar Co. Ltd.; Tulsipur Sugar Co. Ltd.; Trustee: Matadin Khaitan Charitable Trust; Gyan Bharati; travelled widely in Japan, Far East, U.S.A. and Europe; visited U.S.A., Germany, U.K., in National Productivity Council Marketing & Distributing Team, 1960. Address: Khaitan House, 27, Vivekanand Road, Calcutta 7.

KHAN, Abdur Razzak, Minister for Relief, West Bengal, since Feb. 1969. Entered National Movement at an early age; jailed in 1930 and 1948; spread communism among his fellow prisoners; devoted himself to peasant movement; was for some time associated with 'Rozana Hind', of Calcutta; elected to the Rajya Sabha, 1957. Address: Writers' Buildings, Calcutta.

KHAN, Barkatullah, B.A., LL.B., Minister for Education and Law, Rajasthan, since March 1967. b. Aug. 25, 1920; Educ.: Jodhpur & Lucknow Univ. Min., former Jodhpur State, 1948; Resident Rep. of former Jodhpur State in Delhi; Pres., Municipal Board, Jodhpur, 1951; M.P., 1952-57; M.L.A., Rajasthan, 1957; Dy. Min. for Planning, Power, Tech. Educ., State Enterprises and Tourism, Rajasthan, 1960-62; Min. for Local Self-Govt., Tourism, Housing, Linguistic Minorities & Wakfs, Rajasthan, 1962-67; has been an active member of Cong. Address: 49, Civil Lines, Jaipur.

KHAN, Dr. Jehangir, a leading Tabla Player. *b.* Jan. 11, 1869, at Banaras; *Educ.*: Banaras, Bareilly, Delhi and Lucknow; had trg. in tabla under late Ustad Mubarak Khan Sahib, Abid Hussain Khan Sahib of Lucknow and Chhannu Khan Sahib of Bareilly; attained proficiency in the tabla styles of Ajirada Purab and Delhi. Obtained President's Award, March 1959; degree of Doctor of Music was conferred by Indira Kala Music Univ. of Khairagarh. *Address*: 21, Tukoganj, Safed Kothi No. 1, Indore.

KHAN, Mohd. Ayub, B.A., Minister for Health, Fisheries, Forest, Games, Social Welfare and Local Self Govt., Jammu and Kashmir, since March 1967. *b.* Sept. 28, 1923; *Educ.*: Amar Singh Coll., Srinagar. Worked in Kashfi Kohistani Anjuman in Pogal Paristan, 1944-47; Dist. Rehabilitation Officer, 1947-51; elected member, State Constituent Assembly, 1951; Parliamentary Secy., 1952; Dy. Speaker, 1957; elected Chief, National Confee., Jammu Province, 1957; was Pres., Central Co-op. Bank, Jammu; Works and Transport Minister, 1963; Revenue, Transport, Housing and Excise Minister, 1964. *Address*: Minister for Health, Jammu & Kashmir, Srinagar.

KHAN, Ustad Bismillah, Padma Shri (1961), Padma Bhushan (1968), Musician. *b.* March 21, 1916 at Dumraon, Shahabad Dist., Bihar; *Educ.*: Received Shahnaee training under his uncle Ali Bux Khan and father Paigamber Khan. Gave his first public performance at the age of 14 at the All India Music Conference at Allahabad, 1930; Academy Award for Hindustani Instrumental Music, 1956; participated in the Edinburgh International and the Commonwealth Arts Festival, London & Liverpool, 1965; gave numerous musical concerts at the Expo '67 at Montreal, Canada including the Lincoln Centre, New York, U.S.S.R., and all the countries of the Middle East, 1967. *Address*: C. K. 46/62, Sarai Harha, Banaras.

KHANDEKAR, Vishnu Sakharan, Padma Bhushan (1968), Marathi Writer; Pres., Marathi Sahitya Sammelan, 1941. *b.* Jan. 11, 1898; *Educ.*: Sangli High School, Sangli; Fergusson Coll., Poona. Headmaster, T. E. School, Shiroda (Dt. Ratnagiri), 1920-38; Screenplay Writer to Huns Pictures, Navyug Pictures & Prafulla Pictures, 1936-47; Author, Short Story Writer, Critic, Novelist, Essayist. *Publications*: About 60 Books in Marathi, many of which have been translated into Gujarati, Tamil, Hindi, etc.; Sahitya Akademi Award for his Novel *Yayati* (1961). *Address*: 7, Rajarampuri, Kolhapur.

KHANDELWAL, Goverdhan Das, M.A., Chairman, Railway Board and ex-Officio Principal Secy., Govt. of India, Min. of Rlys., since Jan. 21, 1967. *b.* Jan. 7, 1912; *Educ.*: Allahabad Univ. Joined the former East Indian Rly. as Probationer Transportation (Traffic) Officer, Sept. 1935; promoted to senior scale, 1942; confirmed as Commercial Supdt., 1947; Dy. Chief Operating Supdt., Eastern Rly., 1952-54; Regional Transportation Supdt., Bilaspur, 1954-55; Jt. Dir., Traffic (Transportation), Rly. Board, 1955-56; Dvnl. Supdt., Eastern Rly., 1956-58; Chief Operating Supdt., 1958-59; Chief Operating Supdt., South-Eastern Rly., 1959-61; Gen. Mgr., South Eastern Rly., 1961-66; Member (staff), Rly. Board, 1966-67; Dir., Telco (Tata Engg. & Loco. Co.). *Address*: Railway Board, New Delhi.

KHANNA, Dinesh, B.Sc. Engg. (1st Class), Arjuna Award (1966), leading badminton player. *b.* Jan. 4, 1943; *Educ.*: Amritsar, Chandigarh. Played in the National Championships as a junior, 1956; rep. Indian students team in Malaysia, 1962 and won the team championship; has rep. India in the Thomas Cup Matches and various test matches; rep. India and won: the Men's Single's Title in the Asian Badminton Championships, Nehru Memorial

and Central India Singles Titles, 1965; ranked India's No. 1 for 1965-66, '66-67; reached the semi-finals in the all England Championship, 1966; National Champion, 1966-67; Captained an Indian team to East Africa, 1968; selected to lead India in the Asian Badminton Championship at Manila, in 1969. *Address*: 12, Ram Nagar, Race Course Road, Amritsar.

KHANOLKAR, Dr. Vasant Ramji, B.Sc., M.D. (London), Hon. LL.D. (Melbourne), Hon. F.R.C.P. (Edin.), F.A.Sc., F.N.I., Hon. LL.D. (Bomb.) (1965), Padma Bhushan (1955), Scientist; National Research Prof. in Medicine, since April 1963. Ex-Vice-Chancellor, Bombay Univ. *b.* April 13, 1895; *Educ.*: Bombay; London Univ. Has done pioneering work on cancer in India; elected Chairman, Intn'l. Cancer Research Commn., 1950; elected Pres., Intn'l Union against Cancer for four years, July 1958; member, U.N. Scientific Cttee. on the Effects of Atomic Radiation, since 1956; apptd. Vice-Chairman, June 1958; received citation from the Cancer Cytology Foundation of America, 1960; member, Academy of Medical Services, U.S.S.R.; Hon. Fellow, Royal Soc. of Medicine, Lond.; Pres., National Instt. of Scs. of India, 1965. *Publications*: 118, Scientific publications, including a book entitled "A Look at Cancer". *Address*: 66, Padmalaya, Sion East, Bombay 22.

KHARE, Dr. Narayan Bhaskar, B.A., M.D. *b.* 1882. Ex-Chief Min. & M.L.C., M.P., 1923. Imprisoned in 1930 C. D. Movement; M.L.A. (Central), 1935-37; 1st Prime Min. of M.P., 1937-38; member, Viceroy's Exec. Council, Dept. of Commonwealth Relations, 1943-46; responsible for securing citizenship rights for Indians domiciled in America, saving lives of Indians accused of high treason in Malaya, & for various steps taken against South Africa; elected Pres., All-India Hindu Mahasabha at its Sessions at: Calcutta, Dec. 1949; Poona, Dec. 1950; Jaipur, April 1951; elected to Lok Sabha, 1952. *Publications*: *My Defence* (English), 1938; Autobiography in Marathi and Hindi, 1956 and English, 1959; *Nehru as I Know*, 1957; *Khare Vs. Nehru and Azad's Autobiography Autopsied* 1961; *Khare-Darshan* (Marathi), 1964. *Address*: Indira Mahal, Dhantoli, Nagpur.

KHER, Atmaram Govind, B.A., LL.B., President, Central Bharat Sevak Samaj, Bhoodan Yoga Samiti & Samyukta Sadachar Samiti, U.P. *b.* Sept. 25, 1894; *Educ.*: Jhansi; Central Hindu Coll., Banaras, and Law Coll., Allahabad. Thrice M.L.A., U.P.; member, Dist., Provincial and All-India Cong. Cttee.s, several times; imprisoned for political activities five times; twice Parly. Secy. to Min. of Health & Local Self-Govt.; Min. for Local Self-Govt.; Speaker, U.P. Assembly, 1952-62; Pres.: Bharat Scouts and Guides, U.P.; Chairman, U.P. Drought Relief Cttee. *Address*: D-13, Park Road, Lucknow.

KHER, Prof. P. G., B.A., LL.B., Minister for Urban Development, Maharashtra, since March 1967. *b.* Aug. 20, 1911 at Ratnagiri. Courtied jail during the freedom movement; was Pres., B.P.C.C.; member, A.I.C.C.; Bombay Municipal Corpn., 1952-57; Chairman: Standing Cttee., Bombay Municipal Corpn., 1956-57; Minimum Wages Cttee. on Glass Industry, Printing Press Industry, Potteries and Cinema Industries, since 1962; Estimates Cttee., State Legislature, 1961-64; elected M.L.A. from Bandra (Bombay), 1957; member: Bombay Univ. Senate, since 1957; Regional Planning Cttee., 1964; is connected with several social, educational and cultural organisations, Bombay; practised at the Bombay High Court for 17 years; Chief Organiser, Rashtra Seva Dal of B.S.D., 1940-47; Pres., National Library, Bandra; elected M.L.A., on Congress ticket from Bandra, 1967. *Address*: Sachivalaya, Bombay 32.

KHOBARAGADE, Bhaurao Dewaji, B.A. (Nagpur), Barrister-at-Law (Lincoln's Inn), M.P., Founder, Republican Party of India. *b.* Sept. 25, 1925; *Educ.*: Govt. Jubilee High School, Chanda; Coll. of Sec., Nagpur, Morris Coll., Nagpur. Pres., Nagpur Pradesh S. C. Federation, 1953-55; Gen. Secy., All India S. C. F., 1955-56; elected Pres., All India S.C.F., 1956-57; Founder Pres., Siddharth Shikshan Sahayyak Sanstha (Nag-Vidarbha); elected to Rajya Sabha, 1958 & 1966; attended World Buddhist Cfee. at Bangkok, 1958; offered satyagraha in favour of landless labourers of Maharashtra, 1959; member, Public Accounts Cttee., 1963-64. *Address*: Chanda.

KHOSLA, G. S., Gen. Manager, Western Rly., since Jan. 1967. *b.* 1912. Served seven major railway systems including Bengal and Assam Railway during Second World War; was in the Territorial Army, 1950-56; Chief Optg. Supdt.: Western Rly., 1961-63; Northern Rly., 1963-64; Director (Safety), Rly. Board, 1964-65; organised the first Safety Exhibition of Railways in India 1965; Dir., (Traffic) (Transportation), 1965-67; undertook observation tour of U.S. Rail Roads, June-Aug. 1967; Playwright and Producer; Pres., Punjabi Theatre, since 1949; Fellow, Punjabi Univ., 1962-66; mem., Punjab Sangeet Natak Akademy. *Address*: Western Railway, Churchgate, Bombay 20.

KHOSLA, Jagan Nath, B.Sc. (Econ.) (Lond.), Ph.D. (Econ.) (Lond.), Barrister-at-Law, Dir., Indian Instt. of Public Adm., New Delhi, since Jan. 1964; Pres., Indian Council for Cultural Relations, New Delhi, since 1968. *b.* Jan. 28, 1906; *Educ.*: Srinagar, Lahore, London and Paris. Editor, "Indian Journal of Political Science", 1945-48; Fellow, Punjab Univ., 1947-48; represented India at several Intn'l cfees.; Head, Consular Deptt., High Commn. of India, London, 1948-51; Charge d'Affaires, Indian Embassy, Rome and concurrently at Belgrade, 1951-52; Head, Historical Divn., Min. of Extn. Affairs, 1953-54; Pres., Intn'l Commn. for Control and Supervision, Laos, Indo-China, 1954-55; Amb. to Czechoslovakia, 1955-58 and concurrently to Rumania, Feb.-Oct. 1958; Amb. to: Indonesia, 1958-61; Yugoslavia, Bulgaria and Greece, 1961-64. *Address*: Indian Institute of Public Administration, Indraprastha Estate, Ring Road, New Delhi.

KHURANA, Madan Mohan, B.Sc., LL.B., High Commissioner for India in Malawi, since Aug. 28, 1967. *b.* Jan. 18, 1919; *Educ.*: Govt. Coll., Lahore; Delhi Univ. Commissioned in the Indian Army, 1941; served in the Indian National Army under Netaji Subhas Chandra Bose in Malaya; joined I.F.S., Oct. 1948; Second Secy., Indian Commission in Trinidad, & then in Singapore, 1948-53; First Secy. in Singapore, 1953; attended Bandung Conference, Jan. 1955; First Secy., Indian Commission, Nairobi, 1956-59; Asstt. Commsr., Salisbury, 1959; First Secy./CDA Indembassy, Helsinki, 1960-62; Counsellor, CDA Helsinki, 1962-63; Counsellor at Bonn, 1963-67. *Address*: C/o Ministry of External Affairs, New Delhi.

KILACHAND, Ambalal, Business man. *b.* July 23, 1912; *Educ.*: Elphinstone High School, Bombay and in England. Dir., Kilachand Devchand & Co. Private Ltd., and their associated companies as also other private & public limited concerns including the Kesar Sugar Works Ltd., The New Great Ins. Co. of India Ltd., The Indian Dye-Stuff Industries Ltd., Polychem Ltd.; Bombay Suburban Electric Supply Ltd.; Trustee, Bombay Port Trust; member, Bombay Customs Advisory Cttee.; Cttee. member, F.I.C.C. & I., New Delhi; Pres., Indian Merchants' Chamber, 1953-54; was member, Import Advisory Council, Govt. of India up to 1956; Pres.: All India Plastic Mfrs. Asscn., 1963; Rotary Club of Bombay; has extensively

travelled in the U.K., Europe, the Far Eastern countries, U.S.A., E. Africa and Japan. *Address*: Office: 7, Jamshedji Tata Road, Churchgate Reclamation, Bombay 20; *Resi.*: 95, Nepean Sea Road, Bombay 6.

KILACHAND, Chinubhai, Business man. *b.* June 20, 1919; *Educ.*: Fellowship High School and St. Xavier's, Bombay and in England. Joined the family firm of Kilachand Devchand & Co. Pvt. Ltd., 1939; developed its Foreign Cotton Deptt.; Dir.: Kilachand Devchand & Co. Pvt. Ltd. & its associated companies; also of other public companies and associations; has travelled widely in the U.K., Europe and in the U.S.A. *Address*: Office: Jamshedji Tata Road, Churchgate Reclamation, Bombay 20; *Residence*: 95, Nepean Sea Road, Bombay 6.

KILACHAND, Ramdas, Business man; J.P. *b.* Sept. 18, 1909; *Educ.*: Elphinstone High School, Bombay and in England. Joined his family firm of Kilachand Devchand & Co., Ltd., 1926; Dir., East India Cotton Assoc. Ltd., for over 25 years: was its Vice-Chairman; Pres., Bombay Oilseeds & Oils Exchange Ltd. for more than 25 years; Chairman, Polychem Ltd.; is Dir.: Kesar Sugar Works, Ltd.; Synthetics & Chemicals Ltd., etc. Ex-Trustee, Bombay Port Trust; Pres., Indian Merchants' Chamber, 1948-49; member: Indian Oilseeds Devpt. Council; Indian Central Cotton Devpt. Cttee.; was member, Export Promotion Adv. Council; elected M.L.A., Bombay, 1952; Trustee, Bombay Panjrapole; Pres., Commerce Graduates' Assoc., 1964-66; has widely travelled in the U.K., Europe, U.S.A. and the Far East. *Address*: Office: 7, Jamshedji Tata Road, Churchgate Reclamation, Bombay 20; *Residence*: 95, Nepean Sea Road, Bombay 6.

KILACHAND, Tulsidas, Business man; Chairman, Kilachand Devchand & Co. Ltd. *b.* July 1, 1906; *Educ.*: Elphinstone High School, Bombay & privately in England. Is Chairman: Synthetic & Chemicals Ltd.; New Great Insurance Co. of India Ltd.; India Reinsurance Ltd.; Kesar Sugar Works Ltd.; and AMCO Ltd.; Vice-Chairman, Premier Automobiles Ltd.; Dir.: Walchandnagar Industries Ltd.; Premier Construction Co. Ltd., Wimco Ltd.; Chairman, Bank of Baroda, 1932-65; Leader, Govt. of India's Trade Mission to Japan, 1947; was member: Export Adv. Council of the Govt. of India; Png. Commn. Adv. Board, 1950-51; Stg. Cttee of the Export Promotion Adv. Council & other bodies; Pres., F.I.C.C. & I., 1950-51; Chairman: Bhagalkot Cement Co. Ltd., 1949-67; Indian Banks' Asscn., 1961-65; is a Governor, Adm. Staff Coll. of India, Hyderabad; elected M.P., 1952; has widely travelled in the U.K., Europe, U.S.A., and the Far East. *Address*: Office: 7, Jamshedji Tata Road, Churchgate Reclamation, Bombay 20; *Residence*: 95, Nepean Sea Road, Bombay 6.

KIRLOSKAR, Shantanu Lakshman, B.Sc. (M.I.T.), Padma Bhushan (1965); "Sir Walter Puckey Prize" (1968), Industrialist; First Pres., Indo-American Chamber of Commerce; Pres., F.I.C.C. & I., 1965-66; Chairman, Indian Institute of Management, Ahmedabad, since Aug. 1969. *b.* May 28, 1903, at Sholapur; *Educ.*: Massachusetts Inst. of Tech., U.S.A. Chairman, Board of Dirs.: Kirloskar Oil Engines Ltd., Poona; Kirloskar Pneumatic Co. Ltd., Poona; & some other Kirloskar concerns; Swastic Rubber Products Ltd., Poona; Bank of Maharashtra Ltd., Poona, etc.; Dir.: The Mysore Kirloskar Ltd., Harihar; Kirloskar Electric Company Ltd., Bangalore; Bajaj Auto Ltd., Bombay; Delhi Cloth & Gen. Mills Co. Ltd., Delhi, etc.; Nominated member: The Central Adv. Council of Industries; The Board of Trade;

The Indian Standards Instt.; The Maharashtra State Adv. Council of Industries; Pres., The Maharashtra Chamber of Commerce & Industries, Poona; Cttee. member, Maharashtra Chamber of Commerce, Bombay. *Address: Office:* Kirloskar Oil Engines, Ltd., Kirkee, Poona 3; *Res.:* 'Lakaki', Poona 16.

KOLTE, Dr. V. B., M.A., LL.B., Ph.D., Marathi Writer; Vice-Chancellor, Nagpur Univ., Nagpur. *b.* June 22, 1908; *Educ.:* Govt. High School, Khamgaon; Morris Coll., and Univ. Coll. of Law, Nagpur; K. B. Malak Gold Medal, 1931; N. K. Behare Gold Medal, 1931. Reader in Marathi, Nagpur Mahavidyalaya, 1956-59; member: Sahitya Akademy, 1957-62; Maharashtra State Language Adv. Board, since 1961; Dean, Faculty of Arts, Nag. Univ. 1961-64; Principal: Nagpur Mahavidyalaya, 1959-64; Vidarbha Mahavidyalaya, Amravati, 1964-66; Pres., Marathi Sahitya Sammelan, 47th Session, Bhopal. *Publications:* *Lawhali* (poems); *Sod-Chitthi* (Drama); *Bhaskar Bhatta Borikar, Mahanubhai Tatwadnyan; Mahanubhawancha Achardharma; Marathi Santonka Samajik Karya* (Hindi); edited: *Uddhao Geeta, Rukmini Swayamwar, Shishupal Wadh*, etc. *Address:* C/o Nagpur Univ., Nagpur.

KOMAR, H. E. Dr. Slavko, Order of People's Hero, Partisan Medal (1941), Ambassador of the Socialist Federal Republic of Yugoslavia to India, since Aug. 1967. *b.* Feb. 16, 1918, in Gospić; *Educ.:* Zagreb; D.Sc., Univ. of Zagreb. Actively participated in the four-year national liberation struggle headed by Marshal Tito; member, Military-Political Mission representing Yugoslav liberation forces to the British Govt. 1944; member, Federal Exec. Council (Yugoslav Govt.) and Federal Min. for Agriculture and Forestry, 1954; was Chairman, Cttee. for Social Planning and Finance, Yugoslav Federal Parliament; is member: Central Cttee. of the Yugoslav League of Communists; Yugoslav Federal Parliament, 1946-67; Pres., National Commission of FAO., 1953-62. *Publications:* Articles in Yugoslav newspapers and magazines. *Address:* Yugoslav Embassy, 3/50G, Niti Marg, Chanakyapuri, New Delhi 21.

KONAR, Harekrishna, Minister for Land & Land Revenue, West Bengal, since Feb. 26, 1969. *b.* Aug. 5, 1915; *Educ.:* Memari High School & Bangabasi Coll., Calcutta. Joined C. D. Movement, 1930; imprisoned for political offence in Andaman Jail, 1932-38; has been a wholetime worker of C.P.I. and later of C.P.I.(M.); member, C.E.C. of C.P.I., since 1959; C.C. of C.P.I.(M) since 1964; Gen. Secy., All India Kisan Sabha; M.L.A., West Bengal, since 1957; Minister for Land & Land Revenue, West Bengal, March to Nov. 1967. *Publications:* A number of articles on land problems and political questions. *Address:* 36-A, Beniapukur Road, Calcutta 14; Memari P.O., Dt. Burdwan.

KOTHARI, B. S., M.A., B.Com., F.C.A., J.P., Businessman. *b.* Oct. 2, 1928; *Educ.:* Calcutta. Is a tax consultant; actively associated with a number of public organisations; Pres.: Merchants' Chamber of Commerce, Calcutta; Lions Club of Calcutta; ex-Pres., Assoc. of Company Secretaries, Executives and Advisers; member, Council of the Institute of the Chartered Accountants, New Delhi. *Address:* Kothari & Co., 71, Ganesh Chandra Avenue, Calcutta 13; 1/2, Harish Mukherjee Road, Calcutta 20.

KOTHARI, Daulat Singh, M.Sc. (Allahabad), Ph.D. (Cambridge), F.N.I., Chairman. Univ. Grants Commn., since Feb. 1961; Prof. of Physics, Delhi Univ., and Scientific Adv. to the Min. of Defence, Govt. of India; Chairman, Union Educ. Commn., since July 1964. *b.* 1906; *Educ.:* Udaipur, Indore, Allahabad and Cambridge. Joined

the Min. of Defence, 1948; has been Pres., Indian Physical Soc.; is Vice-Pres., National Instt. of Sces. of India; Gen. Pres., Indian Sc. Cong. Golden Jubilee Session, 1963. *Publications:* Papers in Indian and foreign scientific journals on Statistical Thermodynamics. Theory of White Dwarf Stars, and other Physical and Astrophysical subjects; showed that atoms can be ionized (broken down) by the application of pressure alone; *Nuclear Explosions and their Effects*. *Address:* New Delhi.

KOTHARI, Dayanand Chandulal, M.A., (Madras), Business man, Share & Stockbroker & Industrialist. *b.* Feb. 28, 1914. *Educ.:* Madras Christian Coll. Chairman: Madras Advisory Cttee. of the Indian Standards Instn.; South Indian Sugar Mills Assoc., President, South Indian Sugar Technologists Assoc.; Vice Pres.: Indian Sugar Mills Assoc.; F.I.C.C.I., for 1969-70; Vice-Chairman, Indian Council of Foreign Trade; Cttee. member, F.I.C.C. & I.; Sheriff of Madras, 1955; was trustee, Madras Port Trust; was Pres.: All India Orgn. of Industrial Employers; United Planters Assoc. of India; Hindustan Chamber of Commerce, etc.; was member: Company Law Adv. Cttee.; travelled extensively. *Publications:* *Kothari's Economic Guide and Investors Handbook*. *Address:* "Kothari House", 3, Kothari Road, Nungambakkam, Madras 34.

KOTHARI, Harshad Chandulal, Share, Stock Exchange Broker; Chairman: The Hindustan Photo Films Manufacturing Co. Ltd., Indunagar, Ooty; Vice-Chairman, Tea Board. *b.* April 18, 1918; *Educ.:* Madras Christian Coll. Member: Coffee Board; Cttee., All India Orgn. of Industrial Employers; is Dir.: Madras Industrial Investment Corp. Ltd.; Investment & Fin. Corp. Pvt. Ltd., Madras; Kothari Mehta & Co. Pvt. Ltd.; and several others; was Sheriff of Madras; Pres.: Hindustan Chambers of Commerce; United Planters' Assoc. of Southern India; travelled extensively in the Continent, States and Indonesia. *Publications:* *Kothari's Economic Guide and Investors' Handbook of India*. *Address: Office:* 'Kothari Buildings', 20, Nungambakkam High Road, Madras-34. *Res.:* 4-A.A., Nungambakkam High Road, Madras 34.

KOTHARI, Hemraj, B.Sc., D.W.P. (Lond.), A.C.C.G.I. (Lond.), etc., Chartered and Incorporated Engr., Journalist and Management Consultant; Founder-Editor, *Who's Who in Indian Engineering Industry*; *Professional Engineer, the Director, etc.*; Founder Pres., Instt. of Int'l Affairs & Specialised Publications Cfee.; Convenor, First All-India Engineers' Confce. and Specialised Publications Exhibition. *b.* Nov. 10, 1933, at Sujangarh; *Educ.:* Delhi, Calcutta, Darjeeling, London and Oslo. Partner, Kothari & Sons, Calcutta, since 1955; Founder-Proprietor, Kothari Org.; life Member: National Academy of Sces.; New York Academy of Sces.; Indian Sc. Cong.; Indian Inst. of Public Adm.; member: I.E.N.S.; Intn'l Chamber of Commerce — Exec. Cttee., F.I.C.C.I.; Indian Council of Arbitration; Pres., All India Small and Medium Newspaper Editors Asscn., W. Bengal Branch; etc.; has widely travelled in Europe and Middle East. *Publications:* *Who's Who in Indian Science*; *Professional & Trade Organisations in India*; *Kothari's World of Reference Works*; *Who's Who in India*, etc. *Address: Office:* 12, India Exchange Place, Calcutta, 1; *Home:* Sujangarh-Rajasthan; 58, Upper Chitpore Road, Calcutta 7.

KOTHARI, S. S., M.P. (Lok Sabha), Mem., Public Undertakings Cttee. of Parliament; Convener, Study Group thereof on financial management in public undertakings; served on Select Cttees. of Parliament for Bills for social control of banking and insurance; Chartered

Accountant; Senior Partner, S. S. Kothari & Co., Fellow and Chairman, Employment Cttee. (1965-66) and member, Governing Body, Calcutta Productivity Council; Member: State Savings Advisory Board (1963-65); the Smoke Nuisances Comm. (1964-67) and Governing Body of the Goenka College of Commerce and Business Admn.; mem., Exec. Cttee. and Chairman, Programmes Cttee., Eastern Study Group, Calcutta (1966). *Address*: India Steamship House, 21, Old Court House Street, Calcutta-1.

KOTVAL,, Mr. Justice Sohrab Peshotan, B.A., LL.B., Chief Justice, High Court, Bombay, since July 31, 1966. *b.* Sept. 27, 1910; *Educ.*: Billimoria High School, Panchgani; Morris Coll., Nagpur Univ. Coll. of Law, Nagpur; Prizes won: Sushila Vishnupant Jakatdar Elocution Prize of the Nagpur Univ.; K. S. Hussonji Gold Medal for debates. Lecturer in Jurisp. and Constl. Law, Univ. Coll. of Law, Nagpur (1939-46); member: Court of the Nagpur Univ. since 1935; Academic Council, Nagpur Univ. (1942-64); Dean, Faculty of Law and Member of Exec. Council, Nagpur Univ., 1956-64; Vice-Chancellor, Nagpur Univ. (1962-64). Advocate, C. P. & Berar and M.P. High Courts (1932-55); Judge, M.P. High Court, 1955-56; Judge, Bombay High Court, 1956-66; one-man Commission to inquire into the cases of Police firing in Ahmedabad, 1958. *Address*: "Shivneri", Powai Road, Off Mt. Pleasant Road, Malabar Hill, Bombay 6.

KOUJALGI, H. V., B.A., LL.B., Minister for Revenue, Mysore State, since May 29, 1968. *b.* at Saundatti, Belgaum Dist.; *Educ.*: Karnatak Coll. and Poona Law Coll. Was Pleader, Bailhongal Court; Pres., D.L.B., Belgaum, 1949-52; M.L.A.: Bombay 1952-56; Mysore, 1957-62; Member of Parliament, 1963-67; Chairman, Social Education Cttee. for Bombay-Karnatak Region, since 1950; elected M.L.A., Mysore from Parasgad, 1967; Pres., K.L.E. Society, Belgaum. *Address*: Vidhansoudha, Bangalore 1.

KOYA,* C. H. Mohammed, Minister for Education, Kerala, since 1967. *b.* July 15, 1928; *Educ.*: Upto Intermediate. Entered politics, 1945; member: Indian Union Muslim League Working Cttee.; Wakf Board; Haj Cttee.; Secy., Kerala State Muslim League Cttee.; Leader: Municipal Muslim League Party, Calicut Municipality, 1952-59; Muslim League Leg. Party, Kerala, 1957-59; M.L.A., Kerala, 1960-62; Speaker, Kerala Leg. Assembly, 1961; M.P., Lok Sabha from Kozhikode, 1962-67; elected M.L.A., Kerala from Mankada, 1967; was Chief Editor, "Chandrika", Malayalam Daily from Kozhikode; toured Egypt, Italy, France, Switzerland, U.K., U.S.A., Japan, Hongkong, Singapore, Malaysia, Burma, etc. *Publications*: *My Haj Pilgrimage*; *My Malaysia Tour*; *Muslim Rule in India*; *Assembly Procedure*, etc. *Address*: "Essendene", Nanthencode, Trivandrum; Crescent House, East Nadakkavu, Calicut.

KRIPALANI, Acharya J. B., M.A. (History and Economics), M.P.; Director, Shri Gandhi Ashram, Village and Khadi Organisation, U.P., Delhi. *b.* 1888; *Educ.*: M.A., 1912. General Secretary of Indian National Congress, 1934-46; elected Pres., Indian National Congress, Oct. 1946; resigned Nov. 1947; joined Mahatma Gandhi in Champaran Satyagraha, 1917; Private Secretary to Pandit Madan Mohan Malaviya, 1918; organised Gandhi Ashram; started Khadi and Village work, 1920, through the Gandhi Ashram, Banaras; courted jail in freedom movement several times; Member, Constituent Assembly of India, 1946-51; formed the Congress Democratic Front, 1951; resigned from Congress and formed Kisan Mazdoor Praja Party, 1951; merged K.M.P.P. with the Socialist Party, Oct. 1951; was Chairman, P.S.P. till Dec. 1954;

elected to Lok Sabha, 1952, 1957, 1963 & 1967. *Publications*: *The Gandhian Thought*, *The Indian National Congress*, *The Future of the Congress*, *Where are we going*, *Current Affairs* and several others. *Address*: Shri Gandhi Ashram, Lucknow.

KRIPALANI, Smt. Sucheta, M.A. (Delhi Univ.), Ex-Chief Min., Uttar Pradesh, M.P. (Lok Sabha). *b.* 1908; *Educ.*: Lahore and Delhi. Imprisoned in connection with the freedom struggle; appointed Organising Secy., Kasturba Memorial Trust, 1945; elected member, Constituent Assembly, 1946; subsequently elected M.P.; Member, Cong. Wkg. Cttee. (National Exec.), 1948-51; resigned from the Cong., June 1951; was member, National Exec. of the Kisan Mazdoor Praja Party; was elected member, National Exec., P.S.P.; elected to Lok Sabha in 1952 and 1957; rejoined the Cong.; Gen. Secy., Indian National Cong., 1958-60; re-elected M.L.A., U.P., 1962; Min. for Labour, U.P., 1960-63; Chief Minister, U.P., 1963-67; returned to Parliament from Gonda Constituency, U.P., Feb. 1967. *Address*: 11, Gautam Palli, Lucknow.

KRISHNA, Kanwal, Painter; Head of the Art Deptt., Modern School, New Delhi, since June 1953. *b.* Jan. 3, 1910 in Montgomery, West Punjab; *Educ.*: Lahore; Engg. Coll., Banaras; School of Art, Calcutta. Three of his new experiments on the technique in etching and engraving were exhibited in the Intn'l. Graphic Art Exhibition, Switzerland, 1958; awarded Governor's Gold Medal for experiments in Graphic Art, 1961; held exhibitions of his graphics in several countries; participated in the Intn'l exhibition of graphics in Yugoslavia and Austria, 1963; in the Intn'l biennale exhibition of art at Sao Paulo in Brazil and won an award, 1963. *Publications*: Contributed several articles to imp. journals in India and abroad. *Address*: Head, Art Department, Modern School, New Delhi.

KRISHNAMACHARI, Tiruvallur Thattai, Ex-Min. for Fin., Govt. of India; Ex-Member, Png. Commn. *b.* Nov. 26, 1899; *Educ.*: Madras Christian Coll., Madras. Entered business, 1921; elected M.L.A., Madras, 1937; elected to the Central Assembly in Oct. 1942; elected member, Constituent Assembly of India, 1946; member, Drafting Cttee. of the Indian Constitution; Min. for Commerce and Industry, Govt. of India, 1952-56; Min. for Iron and Steel 1955-57; Union Fin. Min., 1956-58; resigned, Feb. 14, 1958; elected unopposed to Lok Sabha, Feb. 1962; Union Min. without portfolio, June 8 to Nov. 14, 1962; Union Min. for Eco. & Defence Coordination, 1962-63; Union Min. for Fin., 1963-65; resigned from the cabinet, Dec. 31, 1965; has extensively travelled abroad; attended the Commonwealth Prime Ministers' Cfce. in London, July 1964; attended the meeting of the World Bank and the I.M.F., Aug. 1964. *Address*: Tambaram (East), Madras 59.

KRISHNAN†, M. K., Minister for Forests and Harijan Welfare, Kerala, since March 1967. *b.* 1924. Took part in politics and social work while a student; joined the C.P.I. as a full-time worker, 1947; went underground to evade arrest, 1948-50; Pres., Edavanakkat Panchayat, 1953-61; detained in jail, 1965-66; is State Cttee. member, C.P.I. (Marxist); elected to the Kerala Assembly from Kunnathunad Constituency, 1967. *Address*: Minister for Forests and Harijan Welfare, Kerala, Trivandrum.

KRISHNAN, Dr. Maharajapuram Sitaram, M.A. (Madras), A.R.C.S., D.I.C., Ph.D. (London), Hon. Prof. of Geology, Osmania Univ., Hyderabad. *b.* Aug. 24, 1898; *Educ.*: St. Joseph's Coll., Tiruchirappalli; Presidency Coll., Madras; Imperial Coll. of Sc. and Tech., London.

* Submitted his resignation from the Ministry on Oct. 17, 1969.

† Has since resigned from the Ministry.

Dir., Indian Bureau of Mines, 1948-51; Fellow of the National Instt. of Scs. of the Indian Academy of Scs. and of several geological and mineralogical societies at home and abroad: Dir., Geological Survey of India, 1951-55; Gen. Pres., Indian Sc. Cong., 1956; Jt. Secy., Min. of Nat. Resources, 1955-57; Dir., Indian School of Mines, 1957-58; Head, Dept. of Geophysics, Andhra Univ. 1959-61; Dir., National Geophysics Research Instt., 1961-63. *Publications*: *Geology of India and Burma*; *Introduction to the Geology of India*; *Geology of Gangpur State, Orissa*; *Mineral Resources of Madras* (1952); *Structural & Tectonic History of India*. *Address*: C/o Geology Dept., Osmania University Campus, Hyderabad 7.

KRISHNAN, Ramanathan, M.A., Padma Bhushan (1967), Helms World Trophy for the Foremost sportsman from Asia of 1966, a leading tennis player; Gen. Mgr., Madras Cylinder Gas Co. b. April 11, 1937; *Educ.*: Loyolla Coll., Madras. National Lawn Tennis Champion of India, 1954, 1957, 1959, 1960, 1961, 1963, 1964 & 1965. Wimbledon Junior Lawn Tennis Champion, 1954. Won the London Grass Court Championship, & the American Hard Court Championship, 1959; won the Lawn Tennis Championship of Asia, 1959, 1963, 1964 & 1965; was the first Indian to enter semi-finals at Wimbledon, 1960 & 1961; has played for India in the Davis Cup since 1953; ranked as India's No. 1 since 1953. *Address*: 'Ram Nivas,' 37, Thiruvengkatam Street, Raja Annamalaipuram Post, Madras 28.

KULKARNI, K. S., G.D. Art, Painter & Sculptor; Dean, Faculty of Music and Fine Arts, Banaras Hindu Univ. b. April 7, 1918; *Educ.*: Sir J. J. School of Art, Bombay. Research Scholar, Sir Ratan Tata Trust for Indian Painting, 1940-41; held one man shows of his paintings in India & in the United States & European countries; represented India at the Intn'l Arts Programme in the U.S.A., 1950-51; has travelled widely and exhibited his works in the Middle-East, Europe, America, South America, Canada, Mexico, Japan and South-East Asia, 1958-59; a Founder member and Chairman of the Delhi Silpi Chakra; executed imp. mural and sculpture work in India and abroad — Art adv. to the Children's Book Trust; Founder-member, *Triveni*. *Publications*: *Human form in Indian Sculpture*. *Address*: Varanasi 5.

KULKARNI, Waman Laxman, M.A., B.T., Marathi Writer; Prof. & Head of the Deptt. of Marathi, Marathwada Univ., since 1959; Chairman, Board of Editors, Marathwada Univ. Journal. b. April 6, 1911; *Educ.*: Govt. High School, Nasik; Wilson Coll., Bombay; won the Chiplunkar Marathi prize. Elected Pres., 43rd AIMSS, Hyderabad, 1965; Prof. and Head of the Dept. of Marathi, Wilson Coll., Bombay, 1944-59; member: State Board of Literature & Culture, Maharashtra; Univ. Broadcasts Consultative Panel etc. *Publications*: *Woman Malhar*; *Wangmaya-Darshan*; *Wangmayatil Wadasthale*; *Wangmayeen Mate ani Matabhed*; *Shripad Krishna: Sahitya ani Sameeksha*; *Natakhar Khadlikar: Marathi Dnanaprasarak Itihasa ani Wangmaya-Vichara*, etc., *Address*: Marathi Dept., Marathwada University, Aurangabad (Dn.).

KUMAR, Naresh, B.Com., Arjuna Award (1962), a leading tennis player; Business man. b. Dec. 22, 1928; *Educ.*: St. Xavier's Coll., Calcutta; Govt. Coll., Lahore. National Junior Tennis Champion, 1945, 1946; ranked India's No. 1, 1951-52; member of Indian Davis Cup Team, 1952-53-54-55-56-57-58-59-60-61; Captain, Indian Davis Cup Team, 1955-56-57-58-59-60; winner of several Championships; ranked India's No. 2, 1955-56, 1958-59; reached mixed doubles quarter-finals at Wimbledon with

Miss E. Buding (Germany), 1957; reached men's doubles quarter-finals with R. Krishnan, Wimbledon, 1958; won doubles championships of Moscow with A. Huber (Austria), 1957; Asian Doubles Champion with Krishnan, 1962-63 & 1963-64. *Address*: 15, Shakespeare Sarani, Calcutta 16.

KUMAR, Sudhin, M.A., Minister for Food & Supplies, West Bengal, since Feb. 1969. b. 1921; *Educ.*: Calcutta Univ. Became member, Revolutionary Communist Party (RCPI), 1936; was detained in jail many times before and after independence; Joint Convener, United Front in West Bengal. *Address*: Writers' Buildings, Calcutta.

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KURUP, G. Sankara, Jnanpith Award for his book *Odakuzhal* (1965), Padma Bhushan (1968), M.P. (Rajya Sabha), Malayalam Writer; Member: National Book Trust of India (nominated); Sahitya Akademi General Council; Hon. member, P.E.N. (India). *b.* June 1901; *Educ.*: Privately. Joined service as teacher, 1921; was Malayalam Prof., Maharaja's Coll., Ernakulam; Sahitya Akademi Award for the collection of poems 'Viswadarsanam' in 1963; Soviet Land Nehru Award, 1967. Visited U.S.S.R. and G.D.R. invited by Writers' Unions. *Publications*: Poems: *Sahitya Kautukum*; *Viswadarsanam*; *Odakkuzhal*; *Muthukal*; *Ithalukal*; *Antardaham*; *Jeevana Sangeeta*, etc. Translations: *Meghachaya*; *Megha Dutha*; *Vilaslahari*; *Omar Khayyam*, *Gitanjali* and *Ekotharasathi* from Bengali; One Act Plays: *Irruttinummunpu*; *Sandhya*, etc.; Prose: *Gadyopaharam*; *G. Yute Notebook*; *Muthum Chippiyum*; Children's poems: *Ilamchundukal*. *Address*: Bhadrarayam, Ernakulam 1.

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member, State Assembly, since 1957; was Founder, Editor, "Swadhinata"; member, Constituent Assembly, 1946-47; Minister for Information and Public Relations-U.F. Cabinet, 1967-68. *Publications*: Bengali: Short stories—*Kalijuger Galpa*; Book on Marxian Socialism—*Samyabad*. *Address*: Writers' Buildings, Calcutta.

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* Submitted his resignation from the Ministry on Oct. 17, 1969.

for Irrigation & Power, 1963; elected M.L.A., U.P., 1967 and in the mid-term elections, 1969. *Address*: 3 Sarojini Naidu Marg, Lucknow.

LAL, Muni, M.A. (Philosophy), Amb. to the Republic of Somalia since Feb. 16, 1969. *b.* Jan. 11, 1913; *Educ.*: Punjab Univ. Joined the I.F.S., 1947; served in Pakistan, Australia, U.S.A., Indonesia, U.K., Trinidad and Tobago; was Dir., Indian Information Service, London and Washington; Dir. Min. of Ext. Affairs, 1961; High Commr. of India to Trinidad and Tobago, Jamaica and Barbados, 1964-68; represented Northern India in the cricket Championship of India for the Ranji Trophy, 1932-47; repd. his State against all foreign visiting teams, 1932-47; captained the Punjab Univ., 1935; Vice-Captain, Northern India Cricket Assoc. team, 1936-37. *Publications*: *Schopenhaur Seige of Frankfurt*. *Address*: Embassy of India, P.B. No. 955, Mogadishu (Somalia), East Africa.

LAL, Air Marshal Pratap Chandra, Padma Bhushan, Chief of the Air Staff, Indian Air Force, since July 16, 1969. *b.* Dec. 6, 1916, at Ludhiana; *Educ.*: Delhi; King's Coll., London; obtained amateur pilot's licence, 1934. Commnd. in the I.A.F., in Nov. 1939; assumed command of 152, Operational Trg. Unit, June 1944; was mentioned in despatches and awarded D.F.C. for his part in the Burma operations, 1944 and 1945; held several senior appts. including those of Dir. of Plans at Air Hqrs., Dy. Secy. (Military) to the Cabinet and A.O.C. Trg. Command; was a member of several Govt. Missions abroad; Gen. Mgr., I.A.C., 1957-62; was concurrently member, Board of Dirs., IAC and Air India; held the posts of Air Officer incharge of Maintenance at Air Hq., A.O.C.-in-C., Western Air Command, Vice Chief, Air Staff till Sept. 1966; Mg. Dir., Hindustan Aeronautics Ltd., 1966-69. *Address*: Air Headquarters, New Delhi.

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MADGULKAR, Vyankatesh Digambar, Marathi Writer; Producer, Rural and Farm Forum Programmes, A.I.R., Poona. *b.* July 7, 1927; *Educ.*: Atpadi (South Satara). Published his first book, 1949; was awarded first prize thrice by the State for best books; his novel Banagarwadi has been translated into English entitled *The Village had no Walls*, Hindi and Gurumukhi. Many of his short stories have been translated into Hindi, Gujarati, etc. *Publications: Mandeshi Manse; Gavakadchya Gosti; Bangarwadi*, etc.; stories and screen-plays for over a dozen Marathi pictures and a few folk plays staged in villages of Maharashtra. Address: Akshar, 110/10, Erandvana, Poona 4.

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MAHAPATRA, Nityananda, Minister for Supply & Cultural Affairs, Orissa, since March 1967. *b.* June 17, 1912. Joined Mahatma Gandhi's Salt Satyagraha (1930); was imprisoned several times during the freedom movement; member, Balasore District Board, 1946; elected to State Assembly, 1957, 1961 and 1967; Editor: *Daily Asha* 1945-46; *Dagora*, monthly, since 1937. *Publications*: Novels & short stories:—*Bhool*; *Jibanar Lakhya*; *Janta Manisa*; *Hida-mati*; *Bhange Hada*; *Sukhara Sandhane*; *Egarta*; *Khyankika*; *Dhalagara-Kalagara*. Belles letters:—*Patra-O-Pratima*; *Kabipriyasu*. Drama:—*Harijan Mandir Prabhas*; Political Literature:—*Swarajya*, *Pala*; *Bhoo-Mahatmya*; *Mausi*. *Address*: Minister for Supply and Cultural Affairs, Orissa, Bhubaneswar.

MAHTAB, Harekrushna, Ex-Dy. Leader of the Congress in Parliament. *b.* Nov. 1899; *Educ.*: Ravenshaw College, Cuttack. Elected M.L.A., Bihar and Orissa, 1924; was editor, *Prajatantra*, and also *Rachana*; courted jail several times in the freedom movement; Pres., Utkal P.C.C., 1930 and 1937; member, Congress Working Cttee., 1938-62; Chief Minister, Orissa, 1946-50 & 1957-60; Hon. LL.D., Andhra Univ., 1950, Utkal Univ., 1956 and Sagar Univ., 1958; Minister for Commerce and Industry, Govt. of India, 1950-52; Secretary-General, Congress Parl. Party, 1952-54; Governor of Bombay, 1955-56; member: Lok Sabha, 1962-67; Leg. Assembly, Orissa State; Editor, *The Jhankar*, a monthly literary journal of Orissa. *Publications*: Popular novels; dramas; *History of Orissa*. *Address*: New Delhi.

MAI MARKAND, U.R.M. Mai's Mercy (formerly C. Ramankutty Nair, L.E.E.), Spiritual Successor of late U.R.M. Mai's Mercy Mai Swarup Mai-Markand—known as

Maiji, Founder, Universal Religion "Mai-ism" and Pres., "Mother's Lodge." *b.* June 16, 1905; *Educ.*: Madras Technical Institute. Was in Govt. service, 1931-61; a full-time Universal Mother Mai's servant; organised under Maiji's instructions, Mai Adherents' Institutes at Trichur, Perintalmanna, Polpully and Palghat; installed Universal Mother Mai in temples, Mai Vidyut at Trichur, Mai-Kripa at Perintalmanna and Mai Nagar at Polpully; organised Mother's Universal Sisters' Socials at Calicut, 1954, Trichur, 1957, Trivandrum, 1958 and Mai Convocations at Trichur, 1960 and Ernakulam, 1962; is in charge of Mai Adherents' Institute, Bombay with branches and followers all over India and abroad. *Address*: Mai Niwas, Saraswati Road, Santacruz West, Bombay-54.

MAJITHIA, Sardar Sir Surendra Singh, Kt. (1946), Industrialist: Chairman, Saraya Sugar Mills Pvt. Ltd. and Saraya Engg. Works Pvt. Ltd. *b.* March 4, 1895; *Educ.*: Khalsa Collegiate High School, Khalsa Coll., Amritsar. Proprietor, Saraya Estate; Dir.: The Punjab and Sind Bank Ltd., Dehra Dun; Patron: Wrestling Fed. of India; U. P. Fruit Devpt. Board, Lucknow; Pres.: Working Cttee.: Maharana Pratap Inter-Coll., Gorakhpur; Buddha Degree Coll. Kushinagar, Deoria; Senior Mg. Partner: Saraya Distillery; Saraya Oil Works Fair-weather's Gorakhpur; U.P. Tuberculosis Assoc., Lucknow; Cttee., Deoria Mahavidyalaya Degree Coll. and several other educational and cultural assoc. *Address*: Saraya Sugar Mills Pvt. Ltd., P.O. Sardarnagar, Dist. Gorakhpur (U.P.).

MAJUMDAR, Smt. Lila, M.A., Bengali writer; Jt. Editor, *Sandesh*. *b.* Feb. 26, 1908; *Educ.*: Loreto Convent and Diocesan Coll., Calcutta. Lecturer: Shantiniketan, 1931-32; Ashutosh Coll. for Women, 1932-33; Pres., Bengal Women's Educ. League, 1939-45; Hon. Secy.: P.E.N. (Calcutta), Santiniketan Ashramik Sangha, etc., 1946-56; Producer, A.I.R.; won Indian Govt. Children's literature prizes, Sangit Natak Academy Award, 1956-63, Ananda Purashkar, 1966. *Publications*: Children's Books: *Din Dupurey*; *Gupir Gupta Katha*; *Bokboddh*; *Halde Pakhir Palak*; *Taka Gachh*; *Lanka Dahan*, etc.; Stories and Novels: *Shrimati*; *Jonaki*; *Monikuntala*; *Jhampal*; *Aina*; etc.; Essays and Biographies: *Ei Ja Dekha*; *Upendrakishor*; *Abanindranath*, etc. *Address*: Suite 8, 30, Jawaharlal Nehru Road, Calcutta 16.

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MALPEKAR, Smt. Anjanibai, Fellow of The Sangeet Natak Akademi (Awarded 1958), Musician. *b.* April 22, 1883; *Educ.*: Academic education in Marathi, Urdu, Gujarati and English; learnt Music from Ustad Nazir Hussein Khan (Bhendibazarwale) for 36 years and occasionally from Ustads Chajjukhan and Khadim Husain. Received many honours and cash gifts from Nepal, Indore and Baroda Rulers; has been a leading figure in

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MANEKSHAW, Gen. Sam Hormuzji Framji Jamshedji, Padma Bhushan (1968), Chief of the Army Staff, Indian Army, since June 1969. *b.* April 3, 1914; *Educ.*: Sherwood Coll., Naini Tal; Indian Military Academy, Dehra Dun; Staff Coll., Quetta; Imperial Defence Coll., Lond. Commissioned, 4 Feb. 1934; awarded Military Cross; Brigade Major, Razmak Brigade in Waziristan, 1943-44; Instructor, Staff Coll., Quetta, 1944; active service in Burma and French Indo-China, 1945-46; General Staff Officer Grade 1, Military Operations Directorate, A.H.Q., 1946-47; promoted Brig., 1947; Dir. of Military Operations, 1948-52; commanded 167 Infantry Brigade, 1952-54; Dir. of Military Trg. until Jan. 1955; command of the Infantry School at Mhow, 1955; promoted Major Gen., 1957; Commander, 26 Infantry Dvn., J. K. State, 1957-59; Commandant, Defence Services Staff College, Nilgiris, 1959-62; G.O.C. IV Corps 1962-63; Colonel, Gorkha Rifles, since April 1953; G.O.C. in-C.: Western Command, 1963-64; Eastern Command, 1964-69. *Address*: C/o The National and Grindlays Bank Ltd., Bombay, New Delhi; Army Headquarters, New Delhi.

MANGALDAS, Madanmohan, B.A. (Bom.), Industrialist and business man, Ahmedabad. *b.* Oct. 5, 1917. Dir. of various cotton, textile mills and associate concerns; Dir., Bank of India Ltd.; Pres., Ahmedabad Millowners' Assoc. 1955 and 1958; elected M.L.A., Bombay from Ahmedabad, 1951; rep. of employers on E.S.I. Corpn. and its standing cttee.; member: Council of Adm., ATIRA; Cttee. of F.I.C.C. & I. and also its Stg. Cttee. Adv. Cttee. (Textiles) of Ind. Fin. Corpn. of India; Board of Governors, Indian Instt. of Management, Ahmedabad; Advisory Council on Trade; National Rly. Users' Consultative Council; Cotton Devpt. Council; Dir. Mahindra Uguine Still Co. Ltd.; was member, Indian Industrial Delegation to U.S.A. and Europe sponsored by F.I.C.C.I., 1957. *Address*: Mangal Bag, Ellis Bridge, Ahmedabad 6.

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MANI, Annakavoor Doraiswamy, M.A. (Madras), M.P. (Rajya Sabha), Mg. Editor, *The Hitavada*, Nagpur, since 1936; Vice-Pres., The Servants of India Society. *b.* April 8, 1910; *Educ.*: Madras. Joined *Hitavada*, 1933; General Secy., A.I.N.E.C., 1949; member, its Standing Cttee. from 1940; Rep. on the 3rd Cttee. of U.N. General Assembly, 1952; Member, Indian Press Commission, 1952-54; Pres., A.I.N.E.C., 1954; started simultaneous edition of *Hitavada* in Bhopal, 1957; Chairman, P.T.I., 1959-60; member: Cttee.s. of different Mins. of Govt. of India; Governing Body, Indian Institute of International Studies; Vice-Chairman, Small Newspapers Enqy. Cttee., 1964-65; Member: Board of Trustees, Gokhale Instt. of Politics & Econs.; Governing Body & Exec. Cttee., Indian School of Intn'l Studies, New Delhi; attended Commonwealth Parl. Cfee. at Wellington, New

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MANJURAN*, Mathai, B.A., Minister for Labour, Govt. of Kerala, since March 6, 1967. *b.* Oct. 13, 1912; *Educ.*: Univ. of Madras. Entered politics as a student, 1928; took part in Congress Movement; imprisoned in the freedom movement; founded the Kerala Socialist Party, 1947; member, Council of States, 1952-54; founded *Keralaprakasam* Daily, 1957; elected M.L.A., Kerala, 1967. *Address*: Kowdiar House, Trivandrum.

MANSINHA, Dr. Mayadhar, M.A., Ph.D., Padma Shri (1967), Poet, essayist and educationist of Orissa; Editor-in-Chief, Oriya Encyclopaedia Project of the Utkal Univ. *b.* Nov. 11, 1905. Ph.D., Durham Univ., Gr. Britain, 1939, on his thesis *Kalidas and Shakespeare*. Served the Orissa Govt. as Inspector of Schools, Social Educ. Officer and Principal of a Govt. College; life member, World Mahabodhi Society. *Publications*: *History of Oriya Literature*. (National Sahitya Akademi), about 50 volumes in Oriya and English covering educ. poetry, essays, fiction and drama; contributor to *Encyclopaedia Britannica*, and other magazines. *Address*: Mansinha Lane, Cuttack 1, Orissa.

MARICAR, M.O. Hassan Farook, B.A., Chief Minister, Pondicherry, since April 1969. *b.* Sept. 6, 1937; *Educ.*: St. Mary's School, Karikal; Calve Coll., Pondicherry; Loyola Coll., Madras. Joined national movement as a student; was Secy., Town Congress Cttee.; elected M.L.A., Pondicherry on Congress ticket, 1964; Speaker of the Assembly, 1964-67; elected Leader, Congress Leg. Party and Chief Minister, April 1967; resigned, March 1968; joined D.M.K.; elected M.L.A. from Calapeth, March 1969. *Address*: 36, Labourdonnais St., Pondicherry 1.

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MASUD, Husain Khan, M.A., Ph.D. (Alig.), D.Litt. (Paris), Urdu Writer; Prof., Deptt., of Linguistics, Aligarh Muslim Univ., since 1968; Editor, *Qadim Urdu*. b. Jan. 28, 1919; *Educ.*: Jamia Millia, Delhi; M.A., 1st Class, Aligarh Muslim Univ., 1941; Ph.D., 1945; D.Litt., from Sorbonne, Paris, 1953. Urdu Lecturer, Aligarh Muslim Univ., 1943-54; Reader, 1954-62; Prof., Urdu Deptt., Osmania Univ., 1962-68. *Publications*: *Tarikh-e-Zaban-e Urdu* (A History of Urdu Language), *Do Neem* (Poems); *Urdu Zaban aur Adab* (Literary and Linguistic essays), etc. *Address*: Prof. and Head, Deptt. of Linguistics, Aligarh Muslim Univ., Aligarh, U.P.

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MAW, H.E. Mr. U Hla, Thiri Pyanchi and Thihathura Tazeit, Ambassador of the Union of Burma in India, since 1967. b. Nov. 5, 1924 at Sagaing, Upper Burma; *Educ.*: Rangoon Univ.; Officers Trg. School, Mingaladon, 1942-43; Japanese Military Academy, 1943-45; Junior Officers' Course, Maymyo, 1946; Senior Officer Course, India, 1952; Pilot Course, Mangaladon, 1957. Served in various capacities in the Burmese Army as Battalion Commander and Brigade Commander; Military, Naval and Air Attache to Yugoslavia, 1961-64; Military, Naval and Air Attache to Japan, 1964-67; awarded Lutlatyai Tazeit, Naingangdaw Sit Hmu Htan Tazeit, Ahyaiddawbon Tazeit, Lut Lau Yai-Si Yon Hmu Tazeit, Lut Myauk Yai Tazeit, 1939-45 Star, Burma Star and War Medal. *Address*: 3/50-F, Shanti Path, Chanakyapuri, New Delhi 21.

MAZUMDAR, Smt. Lakshmi, B.Sc. (Cal.), Padma Shri (1965), Social Worker. b. Aug. 30, 1912; *Educ.*: Brahma Girls' High School, Calcutta; Bethune Coll., Calcutta. Chief Commissioner, Girl Guides, India, 1961-64; National Commissioner of Bharat Scouts and Guides, since 1964; Chairman, World Centre for Guides in the Asian Region, Poona, since 1962; Member, World Cttee. of Girl Guides 1957-66; Chairman, Delhi Children's

Little Theatre, since 1955; represented India at the Adult Education Cfee., UNESCO in the U.K., 1958; represented the World Assoc. of the Girl Guides at the UNESCO Cfee. in Delhi, 1957 and the Cfee. of the Intn'l. Council of Women, Teheran, 1966; Hon. Member of Gitwell, Lond., the World Trg. Centre for Scouts, 1965; has travelled in Asia, Europe, U.S.A. and Latin America. *Address*: C/o D. L. Mazumdar, I.C.S. (Rtd.), 5-15, Panchshila Park, New Delhi-17.

McMILLAN, Darwin Le Roy, Stanford Univ. (California), Vice-President, Caltex (India) Ltd. and Managing Director, Caltex Oil Refining (India) Ltd. b. June 28, 1913; *Educ.*: Stanford Univ., California. Joined Service, 1933; with Caltex (India), 1937-41; held various responsible positions in China, Philippines, France, Germany and New York; served in the U.S. Air Force, 1942-45; was Regional Director in charge of South, Central and East Africa, Madagascar and Aden. *Address*: C/o Caltex (India) Ltd., Caltex House, 8, Ballard Rd., Bombay 1.

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MEENAKSHISUNDARAN, T. P., M.A. (His.), B.L., M.O.L. (Tamil), Diplomas in Economics, French and German, Palkalai-c-celvar by Dharmapuram Mutt, 1952, Panmoli-p-pulavar by Tiruvannamalai Mutt of Kunrakuti, 1955, Tamil scholar and writer; Vice-Chancellor, Madurai, Univ. since Feb. 1966. b. Jan. 8, 1901; *Educ.*: Pachaiyappa's Coll., Law Coll., Univ. of Madras. Courtted jail in freedom movement; founded the Madras Tamil Sangam, 1942; Pres., All India Oriental Cfee. (XVIII) (Tamil section), 1955; Saiva Siddhanta Cfee. at Jaffna, 1956; Pres.: Linguistic Society of India 1957; Bureau of Tamil Publications, Govt. of Madras. *Publications*: Tamil: *Manala Cattiram*; *Valluvarum Makalirum*; *Kavi Ravindranatha Tagore*, etc.; English: *A History of Tamil Literature*; *A History of Tamil Language*, etc. *Address*: Vice-Chancellor, Madurai Univ., Madurai.

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MEHTA, Dr. Jivraj Narayan, L.M. & S. (Bom.), M.D. (Lond.) (Univ. Medal), M.R.C.P. (Lond.), F.C.P.S. (Bom.), ex-Chief Minister, Gujarat. *b.* Aug. 29, 1887; *Educ.*: Amreli, Grant Medical Coll., Bombay and London Hospital. *Dean*, K.E.M. Hospital and G. S. Medical Coll., Bombay, 1925-42; *Pres.*, Indian Medical Assoc., 1930, and '45; *member*: Medical Council of India, 1938-43, and 1947-64; *Board of Scientific and Industrial Research*, India, 1942-62; *C.S.I.R.*, 1960-62; *courted jail in freedom movement*; *Dir.-Gen. of Health Services*, Govt. of India, 1947-48; *Member*, Syndicate, Baroda Univ., 1949-60; *P.W.D. Min.*, Bombay, 1949-52; *Min. for Fin.*, Govt. of Bombay, 1952-60; *Chief Min.*, Gujarat, 1960-63; *Indian High Commissioner to U.K.*, 1963-67. *Publications*: "Studies regarding presence of glycogen in Suprarenal

Bodies"; "The Height, Weight & Chest Measurements Enquiry relating to some School Children in Bombay". *Address*: C/o The Bank of Baroda Ltd., Fort, Bombay 1.

MEHTA, Mohanlal Tulsidas-Sopan, Editor, *Sukani* (News Weekly), since its inception, Feb. 1962; *Chief Editor*, *Abhinav Bharati*. *b.* Jan. 14, 1910; *Educ.*: Karachi. Took active part in national struggle, 1930-47; *Editor*, *Janmahoomi* (Daily), 1948-61; was *Editor*: *Nootan Gujarat*, daily; *Akhand Anand* and *Jeevanmadhuri* monthly; was *Pres.*, Gujarati Natya Mandal; *member*: State Prohibition Board, Maharashtra; *Press Accreditation Cttee.*, Maharashtra; visited U.S.S.R., 1958 and other European countries, U.S.A., Japan, etc., 1959. *Publications*: 48 publications in Gujarati, Story, Novel, Biography, Philosophy, Sociology and Politics; some of his books have been translated into English, Hindi, Sindhi, Tamil and Malayalam. *Address*: Gulbahar, Barrack Road, Dhobi Talao, Bombay 1.

MEIYAPPAN, AV., Business man, Studio Owner and Film Producer; *Sole Proprietor*, A. V. M. Studios, Madras. *b.* July 28, 1907; *Educ.*: Karaikudi, Madras State. Built up a firm for making gramophone records under the name and style of Saraswathi Stores at Madras, 1932; soon after took to film production; subsequently built up his own Studio; travelled widely in India and abroad in Japan, Hong Kong, U.S.A., England, U.S.S.R., Malaya, Singapore and Ceylon for business and study. *Address*: A. V. M. Studios, Madras 26.

MENON, Gopal Rajagopal, B.A. (Madras), Mg. Dir., Indian Rare Earths Ltd., since Jan. 1, 1962. *b.* Aug. 11, 1912; *Educ.*: Madura and Trivandrum. Commissioned in the Army (Infantry), June 29, 1937; held the appointments of Quartermaster, Adjutant, Field Security Officer, Second-in-Command and Commandant of an Infantry Unit; retired as Lt.-Col., April, 1951; *Chief Adm. Officer*, Indian Rare Earths Ltd., 1951-61. *Address*: *Office*: C/o Indian Rare Earths Ltd., Pil Court, Maharshi Karve Road, Bombay-20; *Residence*: 21, Hampton Court, 125, Wodehouse Road, Colaba, Bombay 5.

MENON, K. P. Kesava, B.A., Bar-at-Law, Padma Bhushan (1966), *Chief Editor*, *Mathrubhumi*, Kozhikode, since Oct. 1952. *b.* Sept. 1, 1886; *Educ.*: Madras; called to the Bar 1915. Set up practice in Calicut; joined the Indian National Congress; *Secy.*: Malabar Dist. Congress; Home Rule League started by Mrs. Annie Besant; gave up practice to join the 1921 N.C. Movement; *Secy.*, Kerala P.C.C.; founded the *Mathrubhumi*, Malayalam Daily, 1923; led the famous Vaikam Satyagraha movement in Travancore to establish the right of the untouchables to walk along public roads, 1924; set up practice in Singapore, 1927; took active part in the Indian associations and labour organisations; imprisoned by the Japanese, 1944; released after the liberation; *Pres.*, Aikya Kerala Cttee., 1949; was *member*, Stg. Cttee., A.I.N.E.C.: High Commr. in Ceylon, 1951-52; *Working Pres.*, Kerala Sahitya Akademi, 1957-62. *Publications*: Various books in Malayalam. *Address*: Kozhikode.

MENON, K. P. S., M.A. (Oxon.), C.I.E., Padma Bhushan (1958), *I.C.S. (Retd.)*, *Chairman*: Indian Statistical Institute; *Central Cttee. for National Film Awards*; *Pres.*, Indo-Soviet Cultural Society; *Fellow*, Indian Council for Cultural Relations (1968); *Ex-Indian Amb. to Russia*; *Chairman*, Bhavan Intn'l. *b.* Oct. 18, 1898; *Educ.*: Christian Coll., Madras; Christ Church, Oxford; *I.C.S.*, 1921. *Addl. Dy. Secy. to the Govt. of India*, Foreign and Political Dept.; *Under-Secy. to the Hon. Resident at Hyderabad*; also on the Frontier for 3 years; *Agent*

to the Govt. of India in Ceylon, 1929-33; deputed by Govt. of India on Spl. Mission to Zanzibar, Kenya & Uganda, to enquire into the position of Indians there, 1934; Dewan of Bharatpur State for about 3 years; attended: San Francisco Cfee., 1945; Gen. Assembly of the U.N., 1946; Agent-Gen. of the Govt. of India in China, 1943-47; Ambassador in China, March 1947; Chairman, U.N. Commn. on Korea, 1948; Forgn. Secy., Govt. of India, 1948-52; Amb. to U.S.S.R., Hungary & Poland, 1952-61. *Publications*: *Delhi-Chungking*; *Russian Panorama*; *The Plying Troika*; *Many Worlds*; *Journey Round the World*; *The Lamp and the Lampstand*. *Address*: Palat House, Ottapalam, Kerala State; J-19, Hauz Khas, New Delhi-16.

MENON, Smt. Lakshmi N., M.A., L.T. (Madras), T.Dip. (Lond.), LL.B. (Lucknow), Padma Bhushan (1957), Ex-Minister of State for Ext. Affairs, Govt. of India (1962-66). *Educ.*: H. H. Maharaja's School, Coll. for Women and Arts Coll., Trivandrum, Lady Willingdon Trg. Coll., Madras, Maria Grey Trg. Coll., London. Member, All-India Women's Cfee.; its Pres., 1955-59; Lecturer in various colleges, 1922-33; attended the 3rd, 5th, 8th and 9th sessions of U.N. Gen. Assembly; Chief of Sect. on the Status of Women in the Human Rights Dvn. U.N. Secretariat at Lake Success, 1949-50; State Commr. for Guides in Bihar, since 1952; Parly. Secy. to Prime Min. 1952-57; Dy. Min. of Ext. Affairs, 1957-62; M.P., Rajya Sabha, 1952-66; Indian rep., U.N. Working Group on Status of women, Bangkok; attended the Triennial Cfee. of Intn'l. Federation of Univ. Women, Mexico, 1962; Brisbane 1965; was Guest-speaker at the World Y.W.C.A. meeting at Melbourne, 1967; leader, Indian Delegation to ECAFE Cfee., Manila, 1963; widely travelled abroad. *Address*: Plain View, Trivandrum.

MENON, Dr. Mambillikalathil Govind Kumar, M.Sc. (Bombay), Ph.D. (Bristol), Fellow of the "Indian Academy of Sciences", S. S. Bhatnagar Award for Physical Sciences (1960), Padma Shri (1961), Padma Bhushan (1968), Dir., Tata Instt. of Fundamental Research, Bombay, since Feb. 1966. *b.* Aug. 28, 1928; *Educ.*: Jaswant Coll., Jodhpur; Royal Instt. of Science, Bombay; Univ. of Bristol, England. Research Associate, Bristol Univ., (1952-53); held Senior Award of the Royal Commn. for the Exhibition of 1851 (1953-55); since 1955, at the T.I.F.R., Bombay—as Reader (1955-58), Associate Prof. (1958-60); Professor, 1960-64, Senior Prof. and Dy. Dir. (Physics), 1964-66; invited delegate at "Intn'l Union of Pure and Applied Physics", Cfees. on Cosmic Rays and High Energy Physics. *Publications*: About fifty-five on Cosmic Ray and Elementary Particle Physics. *Address*: 17, Jenkins House, Henry Road, Bombay 1.

MENON, Mangat Gopal, M.A. (Cantab), I.C.S., Chief Secretary to the Government of Kerala, since 1967. *b.* Dec. 26, 1919; *Educ.*: Loyola Coll., Madras; Christ Coll., Cambridge. Joined Indian Civil Service in England 1941; served the Govt. of Madras in many capacities, 1942-54; Deputy Secy., Joint Secy. & Establishment Officer, Ministry of Home Affairs, Govt. of India, 1954-62; General Manager, Pipelines and Director, Indian Oil Corporation; 1962-66; Fellow of the Centre for International Affairs, Harvard Univ., 1966-67. *Address*: Chief Secretary to Government, Trivandrum, Kerala State.

MENON, Nedyam Balachandran, B.A., Indian Political Officer in Sikkim and Bhutan, since June 3, 1967. *b.* March 18, 1921; *Educ.*: Univ. of Allahabad. Served in the Indian Navy, 1943-46; joined the Indian Foreign Service and served in the Hague 1949-51; Berlin 1951-54; Kathmandu 1954-57; Ottawa 1957-59; Washington 1959-61; Ministry of External Affairs 1961-64;

Director, China Division, 1962-64; National Defence Coll., 1964; Permanent Representative to ECAFE, Bangkok, 1965-66; Kuala Lumpur, 1966-67. *Address*: Political Officer, India House, Gangtok, Sikkim.

MENON, Panampilli Govinda, M.A., B.L., Minister of Law, Govt. of India, since March 1967. *b.* Oct. 1, 1908; *Educ.*: St. Thomas Coll., Trichur; St. Joseph's Coll., Trichinopoly; Law Coll., Madras. Was elected to Cochin Legislature, 1935, '38, '45 and '48; Food Min., Cochin State, Sept. 1946; Member: Constituent Assembly, April 1947; Union Constitution Cttee. & Steering Cttee. of the Constituent Assembly; Educ. Min., Travancore-Cochin State, 1948-51; Indian rep. to the I.L.O. Cfee., Geneva, 1953; Finance Min., Travancore-Cochin, 1952-54; Chief Min., Travancore-Cochin State, Feb. 1955; Member, 3rd Fin. Commn., 1961; M.P., Lok Sabha from Mukundapuram, Kerala, 1962 and 1967; Leader, Indian Parly. delegation to the Inter Parly. Cfee., Belgrade, 1963; Chairman, Parly. Cttee. on Public Undertakings, 1964; Min. of State for Food, Govt. of India, 1966-67; Leader, Indian Delegation to the F.A.O., Regional Cfee., Seoul, 1966; U.N. Cfee. of Ministers in Charge of Social Welfare, New York, Sept. 1968. *Address*: Pullepati Road, Ernakulam; Shastri Bhavan, New Delhi.

MENON, Parakat Achutha, B.A. (Hons.) (Madras), Chairman, Fertilisers and Chemicals (Travancore) Ltd., Alwaye; Director, State Bank of India; Chairman, Madras Industrial Linings Ltd., Madras. *b.* Jan. 2, 1905; *Educ.*: Presidency Coll., Madras; New Coll. Oxford. Joined I.C.S., 1929; served in various capacities under the Govt. of Madras and Govt. of India; member (Nominated), Indian Leg. Assembly, 1938 and 1939; member, Syndicate, Andhra Univ., 1942-43; Deputy Secy. and Secy., India Supply Mission, Washington, 1943-47; Adviser or member of several Indian delegations to international organisations including the U.N., 1945 and 1946; International Emergency Food Council, U.S.A. 1946; Joint Secy., Min. of Ext. Affairs, 1947-49; Min. to Portugal, 1949-51; Amb. to Belgium and Min. to Luxembourg, 1951-54; Amb. to Thailand, 1954-56; High Commissioner to Australia and New Zealand, 1956-59; Amb. to Argentina, 1959-60; Federal Republic of Germany, 1960-64. *Address*: 'Padmaja', 4-A, Tank Bund Road, Nungambakkam, Madras 34.

MENON, Puthiezath Raman, B.A., B.L., Sahitya Kusalani, Advocate, High Court, Kerala, Malayalam Writer; Pres., Kerala Sahitya Akademi. *b.* Nov. 1889; *Educ.*: Trichur, Ernakulam and Madras. Dist. Court Advocate for 21 years; Public Prosecutor for one year; Sarvadhikaryakkarak to the Maharajah of Cochin, 3 years; Dist. Judge for 4 years; Actg. High Court Judge for one year; retired, 1944; is a scholar, good orator and is a humorous writer. *Publications*: Author of over 56 popular books including *Sakthan Thampuran*, pertaining to the history of Cochin and the biography of its great Ruler Sakthan. *Address*: Trichur 1.

MENON, V. K. Krishna, B.A. (Madras), B.Sc. (Econ.), London, M.A. London, M.Sc. (Econ.), Diploma in Educ. (Lond.), Bar-at-Law, Middle Temple, King's Inns, Dublin (Honoris Causa), LL.D., Glasgow (Honoris Causa), LL.D. (Honoris Causa): New Brunswick (Canada), Saugor, (M.P.), Osmania (Hyderabad), Utkal (Orissa), D.Litt. (Mysore), Padma Vibhushan (1954), M.P. (Lok Sabha), Ex-Min. for Defence, Govt. of India. *b.* 3rd May 1896; *Educ.*: Tellicherry and Kozhikode (Kerala), Madras and London, National Univ., Adyar. Secy., The India League 1929-47; Councillor, St. Pancras, London, 1934-47; Labour Parly. Candidate, Dundee, Scotland, 1939-42; Indian rep. at various Intn'l Congresses on behalf of

Indian National Congress from 1936; visited various European capitals as Pandit Nehru's Personal Rep. and made preliminary arrangements for establishing diplomatic relations; High Commr. for India in London, 1947-52; India's Amb. to Ireland, 1949-52; Chairman, Indian Delegation to the Gen. Assembly of the U.N., 1952-53, '54 to '62; Min. without Portfolio, Govt. of India, 1956-57; Defence Min., 1957-62; Senior Advocate, Supreme Court of India; M.P. Lok Sabha, from North Bombay Constituency, 1957 and 1962 and from Midnapore in the bye-election, May 1969. *Publications*: First Editor, Pelican Books; Editor, 20th Century Library (Bodley Head): Pamphlets and Articles such as *India, Britain and Freedom*; *Why Must India Fight*; *Britain's Prisoner: Nehru*; *Unity with India against Fascism*; *Independence*, in collaboration with the Ellen Wilkinson, *The Condition of India*. *Address*: 19, Teen Murti Marg, New Delhi.

MENON, Dr. V. K. Narayana, M.A., Ph.D., Padma Bhushan (1969), Executive Director, National Centre for the Performing Arts since Oct. 1968; Executive Director, Homi Bhabha Fellowships Council. *b.* June 27, 1911; *Educ.*: Univ. of Madras; Univ. of Edinburgh. BBC Eastern Services, 1942-47; All India Radio—various positions including Director of Calcutta, Madras and Delhi Stations, External Services, Deputy Director General etc., 1948-63; Secy., Sangeet Natak Akademi, 1963-65; Director-General, A. I. R., 1965-68; Rockefeller Travel Grantee, 1957; Pres., International Music Council (Unesco), 1966-68; Trustee, International Broadcast Institute; Member, Unesco Advisory Panel on Space Communication, 1965-68; Member, Exec. Board, Sangeet Natak Akademi. *Publications*: *The Development of William Butler Yeats* (Oliver & Boyd); *Kerala—A Profile*; *Balasaraswati*: Translation of the award-winning Malayalam novel *Chemmeen* (Harpers, New York; Gollancz, London). *Address*: Executive Director, National Centre for the Performing Arts, Bombay House (4th floor), Fort, Bombay 1.

MERCHANT, Vijay Madhowji, B.Com. (Bombay), Veteran Cricketer; Mg. Agent, Thackersey Group of Mills. *b.* Oct. 12, 1911; *Educ.*: Bharda New High School & Sydenham Coll. of Commerce & Economics, Bombay. Joined Thackersey Group of Mills, 1932; is Dir.-in-charge, Hindoostan Mills and Sirdar Carbonic Gas Co. Ltd.; actively associated with the blind instts. in Bombay, Maharashtra Soc. for the Donation of Eyes and J. J. Group of Hospitals Blood Bank; played for India in intn'l cricket, 1933-34; figured in 10 Test matches for India—all against England; visited England, 1936 and 1946; retd, from first class cricket, 1951; average in first class cricket, 72.23, only next to that of Don Bradman. *Publications*: 50 *Years of Indian Cricket*; *Duleep: The Legend and the Man*. *Address*: Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay 1.

MICHAEL JOHN, Trade Union Leader; Ex-Member, A.I.C.C.; President: Indian National Iron & Steel Workers' Fed.; Indian National Mineworkers' Fed.; and, Colliery Mazdoor Sangh. *b.* Nov. 29, 1903, at Vepery, Madras; *Educ.*: Dufton Coll., Madras. Courtied jail for political and trade union activities; Pres., I.N.T.U.C. 1952, 1953, 1960-61, 1961-62 and of its Bihar and Orissa branches; was Vice-Pres.: Miners' International Federation, London; Member: Bihar Leg. Assembly, 1946-52; Rajya Sabha, 1957-62; Central Advisory Council of Industries; Central Cttee. of International Metalworkers' Federation; Standing Labour Cttee.; Bihar Regional Employees Prov. Fund Commission; Dir., Hindustan Steel Ltd. *Address*: 17/27, K. Road, Jamshedpur, Bihar.

MIR QASIM, M.A., LL.B., Ex-Pres., Jammu & Kashmir Pradesh Congress. *b.* Aug. 1921; *Educ.*: Aligarh. Entered political career, 1943; was arrested during Quit Kashmir movement, 1946; Advocate, Kashmir High Court; member, Kashmir Constituent Assembly, 1951-56; Chief Parly. Secy., 1952; Secy.: Basic Principles Cttee. and Drafting Cttee. of Kashmir Constituent Assembly; Kashmir Leg. Assembly, since 1957; Revenue and Rehabilitation Min., 1953; left the organisation and formed the opposition group of the Democratic National Ctee., 1957; again joined the organisation, 1960; Min. for Law, Irrigation & Power, Jan. 1961-April 1962; Min., Revenue & Rehab., 1962-63; Ex. Min. for Revenue, Rehab., Food & Agriculture. J. & K. State; was Gen. Secy., National Ctee.; Min. without Portfolio 1965-66; represented India in UNO, Sept. 1965. *Address*: Dooru, Anantnag, Kashmir; Gagribal, Srinagar, Kashmir.

MIRAJKAR, Shantaram Savlaram, Trade Unionist; Pres. All-India Trade Union Congress since 1958; member, Presidential Committee. All India Peace Council. *b.* Feb. 8, 1902; *Educ.*: Maratha High School, Girgaum, Bombay. Trade Unionist since 1920; Secy.: Workers' and Peasants' Party (1927); Girni Kamgar Union (Red Flag) (1928); Founder Member, C.P.I., (1926); Vice-Pres., A.I.T.U.C., (1948-57); Member, Bombay Municipal Corpn. (1939-48; 1957); Chairman, Stg. Cttee., Bombay Municipal Corpn. (1957-58); Mayor, Greater Bombay, 1958-59. *Publications*: Various Tracts and Marathi Publications. *Address*: New Municipal House, Sion (East), Bombay 22.

MISHRA, Pt. Dwarka Prasad, B.A., LL.B., D.Litt. (Honoris Causa), Ex-Chief Minister, Madhya Pradesh. *b.* Aug. 5, 1901; *Educ.*: St. Paul's High School, Raipur; Christ Church Coll., Kanpur; Robertson Coll., Jabalpur (B.A.); Law Coll., Allahabad (LL.B.). Elected to the Indian Leg. Assembly, 1926; Pres., Municipal Cttee., Jabalpur, 1932; Min., C.P. & Berar, 1937; Home Min., M.P. Govt., 1946; Vice-Chancellor, Univ. of Sagar, 1956-61; Leader M.P. Leg. Congress Party, Sept. 24, 1963. *Publications*: *Krishnayan* (Life of Lord Krishna in Hindi Verse). *Address*: Nishat Manzil, Bhopal, M.P.

MISHRA, Lalit Narayan, M.A. (Econ.), Minister for Defence Production, Govt. of India, since Nov. 1967. Congress worker, since 1939; courtied jail in freedom movement; Fellow, Patna Univ. Senate, 1948-49; member, A.I.C.C., 1950-53 and 1963-66; member, Lok Sabha, 1952-62; member: Lok Sabha Estimates Cttee., 1955-56; National Adv. Cttee. for Small Savings, 1956-57; Parly. Secy. to Min. for Pngg., Labour and Employment, 1957-60; Dy. Min. for Labour, Employment and Pngg., 1960-62; Dy. Min. for Home Affairs, Govt. of India, 1964-66; Chairman, National Projects Construction Corpn., 1962-64; M.P., Rajya Sabha, since Feb. 1964; Dy. Min. for Fin. & Planning, Govt. of India, 1966-67; Min. of State for Labour & Rehabilitation, March-Nov. 1967. *Publications*: *An Armed League of unarmed Nations*. *Address*: 9, Akbar Road, New Delhi; P.O. Baluabazar, via Forbesganj, Dt. Saharsa, Bihar.

MISHRA, Dr. Pandit Raghunath, M.L.A., Political & Social Worker. *b.* June 30, 1916; *Educ.*: Ravenshaw Coll., Cuttack; expert in Sanskrit and Oriya Literature, Vedic Lore and Vedantic Culture. Taught Sanskrit and English (1942-45); launched satyagraha against animal sacrifices in temples, 1950; Gen. Secy., Ganatantra Parishad, 1957-60; member: Exce. Cttee., Swa. Party, Orissa Unit till April 1965; Leg. Assembly, Orissa, 1961; Dy. leader of the Opposition, 1961-65;

member, State Board of Homoeopathic Medicine. *Publications*: Books on Oriya grammar and literature and also Oriya and Sanskrit text books for schools. *Address*: P.O. Banpur, Dist. Puri (Orissa); Tulasipur, Cuttack 1.

MISHRA, Raj Ballabh, Min. for Community Development & Panchayati Raj, Agriculture, Labour, Employment & Housing, Orissa, since March 1967. *b.* May 11, 1917; *Educ.*: Keonjhar H.E. School, Keonjhar. Member, Orissa and Chhatisgarh Regional Council 1946-48; was Secy., Vice-Pres. and Pres., Ganatantra Parishad, from 1950 till it merged with the Swatantra Party; Dy. Leader of the Opposition, 1957; Min., Tribal and Rural Welfare, Labour and Housing, 1959-61; Editor, Oriya Weekly *Ganatantra*, 1953-58; Member Board of Editors, Oriya Daily *Swaraj*, 1966 and 1967; Member, Exec. Council, All India Swatantra Party. *Address*: Bhubaneswar-1.

MISRA, Shambhu Maharaj, Padma Shree (1958), Rashtrapati Award (1955), Dancer; Senior Professor of Dancing; Teacher of Dancing to Govt. scholarship holders in Bharatiya Kala Kendra, Delhi. *b.* Nov. 15, 1907; *Educ.*: Learned music under Ustad Rahimudin Khan; training in dancing under his brother and Guru Jagannath Parsad *alias* Achan Maharaj. Started dancing career in 1925; spread the Kathak Natvari Nirtya from Lucknow; danced at music conferences at: Lucknow, 1925; Ajmer, Jaipur, Calcutta, Bombay, Baroda and Allahabad; was honoured as 'Nirta Samrat' in Dehra Dun 1936. *Address*: 6A/6, W.E.A., Karol Bagh, New Delhi 5.

MISTRY, Phiroze Kaikhushroo, M.A. (Cantab), LL.B. (Hons.) (Cantab), Barrister-at-Law, Managing Director, Cement Agencies Ltd., Managing Agents of The A.C.C. Ltd., since March 1, 1967. *b.* Sept. 1, 1911; *Educ.*: Pembroke Coll., Cambridge. Practised at the Bombay Bar, 1934; C. P. Cement Co. Ltd., Bombay, 1935-36; Senior Officer, A.C.C. Ltd., 1936-46 and 1950-52; Secretary, A.C.C. Ltd., 1952-56; Director, Cement Agencies Ltd., 1956-67. *Address*: "Cement House", 121, Maharshi Karve Road, Bombay-20.

MITRA, Asok, B.A. (Cal.), I.C.S., Secy., Min. of Civil Aviation and Tourism, Govt. of India, since Feb. 1969. *b.* March 1, 1917; *Educ.*: Presidency Coll., Calcutta; Merton Coll., Oxford. Served in Bengal in various capacities, 1940-50 & 1952-58; Supdt. of Census Operations, West Bengal, 1950-52; Addl. Secy., Plng. Commn., 1965-66; Registrar-Gon. & Census Commr., India, 1958-69 and Secy., Min. of Information & Broadcasting, 1966-69. *Publications*: *The Tribes and Castes of West Bengal*; *Paschim Europeer Chittrakala*; *Bharater Chittrakala*; *Four Painters*; *Calcutta: India's City*. *Address*: 8, Grove Lane, Calcutta 26; 15, Pandit Pant Marg, New Delhi 1.

MITRA, Dr. Bhupendra Nath, ex-Colonel, D.Sc. (Dacca), Ph.D. (Minnesota), F.R.I.C., Sigma XI, Emeritus Scientist, Indian Instt. of Experimental Medicine, Calcutta, since Dec. 1965. *b.* 1905; *Educ.*: Dacca, Minnesota, Rothamsted Experimental Station, England; awarded Rockefeller Foundation Fellowship 1936-37; invited to attend Intn'l Congress for microbiology, New York 1939 and for pure and applied chemistry, London 1947; visited research instts in U.S.A., U.K. and Europe. Commissioned in the Indian Army 1940-57; Dir. Gen. C.S.I.R. (1958-59); Dir., Regional Research Laboratory, Jorhat 1959-64; Dir., Central Indian Medical Plants Organization, Lucknow, 1964-65. *Publications*: Research papers in chemistry, biochemistry and allied subjects; special studies in protein chemistry; author of military explosive PEK and some ammunition which are in production in India. *Address*: 83/1A, Ballyganj Place, Calcutta-19.

MITRA, Gajendra Kumar, Bengali writer; Editor, *Kathasahitya*, a monthly journal. *b.* Nov. 11, 1908; *Educ.*: Central Kashi Instt., Anglo-Bengali School, Banaras; Jagatbandhu Instt.; St. Xavier's Coll., Calcutta. Began editing mss. magazines at the age of eight; a professional publisher; made a hit picture "Kangan"; based on *Rajanigandha* and later more short stories and novels filmed. *Publications*: More than 50 titles: *Bharate Bari*; *Ratir Tapasya*; *Janmechi Ei Deshe*; *Nari O Niyati*; *Sohagpura*; *Parush O Ramani*; *Malachandan*; *Kalkatar Kachei*, Akademi award (1959-60). *Akashlipi*: *Nilkanthi*; *Dahan-O-Dipti*; *Poush Faguner Pala*, Rabin-dra Memorial Prize, 1964; *Bahnibanya* (On Mutiny); *Prithivir Itihas*; *Ami Kaan Pete Roi*; *Ekada Kee Kariya*, etc. *Address*: P21, Beni Bannerjee Avenue, Dhakuria, Calcutta 31.

MITRA, Sombhu, Akademi Award as the Best Stage Dir. (1959), Fellowship of the Sangeet Natak Akademi (1966); Actor and Stage Dir. *b.* Aug. 22, 1915; *Educ.*: Ballyganj, Govt. High School, and St. Xavier's Coll., Calcutta. Professional actor in the Bengal Stage, 1939-42; Producer-Director-Actor, Indian People's Theatre Assoc., 1943-46; organized a Theatre Unit, Bohurupce, 1948; produced the following Plays, viz., *Four Chapters*, *Red Oleanders*, *Sacrifice*; *King of the Dark Chamber*; also adapted and produced plays of Ibsen, Sophocles and other Masters—*A Doll's House*, *Oedipus Rex*; won the Grand Prix award for his film "Under the Cover of Night" *Ek Din Ratre/Jagte Raho* at the Carlov Vary Film Festival, 1957. *Publications*: *Abhinay-Natak Mancha*; *Putul Khela*; *Kanchanranga*; *Ghurnee*. *Address*: 11A, Nasiruddin Road, Park Circus, Calcutta-17.

MITTER, Mr. Justice Gopendra Krishna, B.Sc. (Hons.) (Patna), Bar-at-Law, Lincoln's Inn, Judge, Supreme Court of India since Aug. 29 1966. *b.* Sept., 24 1906; *Educ.*: Zilla School, Muzaffarpur; Patna Coll., Patna; The Univ. Coll., London. Started practising in the courts at Muzaffarpur 1931; practised at the Bar of the Calcutta High Court, 1934-52; Judge, Calcutta High Court, 1952-66. *Address*: Supreme Court of India, New Delhi.

MODI, Rai Bahadur Seth Gujarmal, Padma Bhushan (1968), Industrialist; Chairman, Modi Industries Ltd., Modinagar. *b.* Aug. 1902, Patiala State; Pres., F.I.C.C.I., for 1968-69. *Educ.*: Privately. Entered business at a young age; founder, 'Modinagar', in Dt. Meerut, U.P.; established industries like Modi Sugar Mills, Modi Vanaspati Mfg. Co., Modi Paint and Varshish Works, Modi Arc Electrodes Co., Modi Spg. & Wvg. Mills Co. Ltd., Modi Yarn Mills, Modi Synthetic Fibre Corpn. at Jagadhri; Patiala Flour Mills Co. (P) Ltd., Okhla-New Delhi, Associated Tubewells (I) P. Ltd. and several others; Chairman, Modi Charitable Fund Society and R. B. Multaninam Charitable Trust; Founder, Western U.P. Chamber of Commerce; Pres.: Western U.P. Productivity Council; member: State Plng. Board, U.P., State Tech. Educ. and Trg. Board, U.P.; is a philanthropist; built an Industrial Colony 'Govindpuri', with Govt. aid, to rehabilitate the displaced persons. *Address*: P. O. Modinagar (Meerut), U.P.

MODY, Rustomji Hormusji, Industrialist. *b.* Jan. 17, 1918 in Bombay; *Educ.*: Harrow and Oxford. Director: Tata Industries Private Ltd.; Tata-Robins-Fraser Ltd.; West Bokaro Ltd.; Vice-Chmn., Commercial and Industrial Exports Ltd.; Pres., All India Organisation of Industrial Employers; Ex-Pres., Indian Chamber of Commerce; Mem.: Industrial Affairs Sub-Committee of the Bengal Chamber of Commerce; former

Commissioner, Port of Calcutta; Delegate to XVIII Congress of Intn'l Chamber of Commerce, Copenhagen (1961); attended International Coal Conference, Tokyo (1963); employers' rep. at 51st Intn'l Labour Conference, Geneva (1967). *Address: Residence: 5, C. Road, Jamshedpur; Office: The Tata Iron and Steel Co. Ltd., Jamshedpur.*

MOHAMMED, Bakshi Gulam (See under **Bakshi Ghulam Mohammed**).

MOHAMED KOYA*, C. H., Minister for Education, Kerala, since March 1967. *b.* July 15, 1928. Joined the Muslim League, 1945; member, Indian Union Muslim League Working Cttee.; Secy., Kerala State Muslim League Cttee.; Leader: Municipal Muslim League party, 1952-59; Muslim League Leg. party in Kerala Assembly, 1957-59; elected M.L.A., Kerala, 1960; elected Speaker, Leg. Assembly, June 1961; resigned, Nov. 1961; elected to the Lok Sabha from Kozhikode, 1962-67; was member: Wakf Board, etc.; was Editor, *Chandrika*, Malayalam Daily. *Publications: My Haj pilgrimage, Caux London Cairo, My Malaysia Tour, Muslim Rule in India, Assembly Procedure*, etc. *Address: Trivandrum.*

MOHANTY, Gopal Nath, M.A., O.A.S. (I), Oriya Novelist; Story writer and literary Critic, Oriya Adv. Board of the Bharat Sahitya Akademi. *b.* April 20, 1914; *Educ.: Patna High School, Patna; Ravenshaw Coll., Cuttack.* Made a thorough study of the Adivasi tribes of Orissa; awarded the Rashtrapati Award, 1955, for his novel *Amrutara Santana* in Oriya (translated into Hindi, Bengali, Punjabi and Telugu by the Sahitya Akademi). *Publications: Novels: Harijana; Danapani; Paraja, Laya Bilaya, Mati Matala* etc.; *Stories: Ghasara Fula; Chhai Alua*, etc.; *Dramas: Mahapurusha*, etc.; *Essays: Premara Niyati*, etc.; *Biography—Dipam Jyoti; Utka-lamani* etc.; *Literary Researches; Adivasi Researches: Kuvi Kondh Bhasa Tattwa; Kondh Paraja Stotra O Sangita; Gadava Bhasa Parichaya; Poems in Kuvi Kondh* etc.; *Translations: Tagore's Yogajog* etc. *Address: Plot No. 200, Unit III, Bhubaneswar.*

MOHI-UD-IN, Akhtar, B.A., Padma Shri (1968), Writer in Kashmiri; Dy. Dir., Field Survey Orgn., Kashmir Dn. *b.* April 17, 1928; *Educ.: Srinagar.* Started writing in Urdu, 1951 and in Kashmiri, 1953; won Sahitya Akademi award for a Kashmiri short stories book, 'Sat Sangar', 1958; represented Kashmir at writers' cfces. at Delhi, Hyderabad, Mysore and Kerala; member: Editorial Staff, The J. & K. Academy of Art & Culture and Languages, Srinagar. Visited U.S.S.R. under Indo-U.S.S.R. Exchange of cultural Delegations Agreement, April 1968. *Publications: In Kashmiri: Short Stories: Sat Sangar; Novel: Dod Dug, Soenzal; compiled and edited five books in Kashmiri; wrote numerous plays in Kashmiri for stage as well as for radio. Address: Sikidafar, Srinagar 2.*

MONDAL, Bhakti Bhushan, M.A., LL.B., Minister for Judicial and Legislative Assembly, West Bengal; since Feb. 1969. *b.* 1920. Was member, West Bengal Democratic Lawyers' Assoc. and West Bengal Lawyers' Assoc.; is member, Forward Bloc; has been General Secy., All India Agragami Kisan Sabha. *Address: Writers' Buildings, Calcutta.*

MOOKERJEE, Sir Biren, M.A. (Cantab.), M.I.E. (Ind.) Kt. (1942), Governing Director, Martin Burn Ltd., Calcutta. *b.* Feb. 14, 1899; *Educ.: Hastings House and Sibpur Engineering Coll., Calcutta; Trinity Coll., Cambridge.* Joined Martin & Co. as an Assistant, 1924; made

partner, Burn & Co., 1931 and Martin & Co., 1934; during World War II, appointed to the Munitions Board and the Defence Council; elected Sheriff of Calcutta, 1940; was Chairman: Calcutta Board, former Imperial Bank of India; Governing Body, Sibpur Engineering Coll.; Fellow, Faculty of Engineering of the Calcutta Univ.; was member, Indian Mission which negotiated Rs. 15 crore loan from the World Bank to the Indian Iron & Steel Co. Ltd.; Chairman, Indian Iron & Steel Co., Calcutta. *Address: 7, Harrington Street, Calcutta 16.*

MOOLGAOKAR, Sumant, B.Sc. (Hons.) (Lond.), J.P., Business Executive. *b.* March 5, 1906; *Educ.: St. Xavier's High School and St. Xavier's Coll., Bombay; Imperial Coll., London.* Started career with the A.C.C. Ltd.; served the cement industry in various tech. and managerial capacities, 1930-48; Mg. Dir., TELCO Ltd., 1949; was Chairman: Engg. Capacity Survey Cttee.; Machine Tools Devpt. Cttee.; member: Indian Defence Delegation to Washington, 1963; National Plng. Council, Ping. Commn.; Adv. Bd., Coll. of Mily. Engg., Poona; Chairman, Tata Exports Ltd.; Vice Chairman: Tata Industries Pvt. Ltd.; TISCO Ltd.; TELCO Ltd.; Dir.: Tata Sons Pvt. Ltd., A.C.C. Ltd.; ACC-Vickers-Babcock Ltd.; Cement Agencies Ltd., Heavy Engg. Corpn., Ranchi etc. *Address: Bombay House, Fort, Bombay 1; Res.: Mayfair, Little Gibbs Road, Malabar Hill, Bombay 6.*

MORAES, Dominic, M.A. (Oxon.), Writer. *b.* July 19, 1938; *Educ.: St. Mary's High School, Bombay; Jesus Coll., Oxford.* Contributed to several English Papers and Magazines; Author of *A Beginning* (1957) which took the Hawthornden Prize; awarded 'Lamont Prize' 1958; Travel books on India. *Gone Away* (1960) and *Poems* are Book Society's and Poetry Society's Choice for their year. *Address: 3, Central Avenue, Maharani Bagh, New Delhi.*

MORAES, Francis Robert, M.A. (Oxon.), B.A. (Bombay), Bar-at-Law, Editor-in-Chief *The Indian Express*, Delhi, since Dec. 9, 1957; Sheriff of Bombay 1961-62. *b.* Nov. 12, 1907; *Educ.: St. Xavier's Coll., Bombay and Oxford Univ. Asstt. Editor, The Times of India, 1938-46; Editor of The Times of Ceylon, 1946-48; War Correspondent, Burma-China, 1942-45; Actg. Editor, The Times of India, April 11-Aug. 14, 1949; Dy. Editor, The Times of India till March 1950; Editor, The National Standard, March-Nov. 1950; was member, Indian Cultural Delegation to China, April-June 1952; Editor, The Times of India, Bombay, 1950-57. Publications: Story of India; Introduction to India with Robert Stimson; Report on Mao's China (Macmillans, New York 1953); Jawaharlal Nehru (Macmillans, New York, 1956); Yonder One World (Macmillans, New York, 1957); Sir Purshotamdas Thakurdas (Asia Publishing House, 1957); The Revolt in Tibet (Macmillans, New York, 1960); India Today (Macmillans, New York, 1960); Nehru-Sunlight and Shadow, 1964; The Importance of Being Black (Macmillans, New York 1965). *Address: 3, Central Avenue, Maharani Bagh, New Delhi.**

MUDALIAR, Sir A. Lakshamanaswami, M.D., LL.D., D.C.L., D.Sc., D.Litt., F.R.C.O.G., F.A.C.S., F.R.C.P. (Edin.) (Honoris), Padma Bhushan (1954), Padma Vibushan (1963), M.L.C., Ex-Vice-Chancellor, University of Madras, (1942-1969). *b.* Oct. 14, 1887; *Educ.: Christian and Medical Colleges, Madras. Prof. of Obstetrics and Gynaecology, Medical Coll., 1934-42; Supdt., Govt. Hospital for Women and Children, Egmore and Principal, Medical Coll., 1939-42; Member, Syndicate, Madras Univ., since 1925; member: Indian Medical*

* Submitted his resignation from the Ministry on Oct. 17, 1969.

Council, since its inception; All-India Council of Technical Education; All-India Council of Scientific and Industrial Research; and of its Governing Body; Exec. of the Assoc. of Commonwealth Univs., since 1948; Chief Commissioner, Madras Prov. Boy Scouts Assoc.; Chairman: Exec. Board, W.H.O.; Exec. Board, UNESCO 1955; President 14th World Health Assembly, 1961. *Publications*: *Clinical Obstetrics*; *Ante-Natal and Neo-Natal Mortality of Infants*; *Case-book for Midwives*. *Address*: 'Kensington', Kilpauk, Madras.

MUDALIAR, Sir A. Ramaswami, Diwan Bahadur, Kt., K.C.S.I. (1942), Ex-Vice-Chancellor, Travancore University. *b.* Oct. 14, 1887; *Educ.*: Christian, and Law Colleges, Madras. Advocate, Madras; M.L.C., Madras, 1920-26; Pres., Municipal Council, Madras, 1928-30; member: Council of State 1930; Indian Leg. Assembly, 1931-34; R.T.C. Federal Structure Cttee.; and Indian Franchise Cttee.; Indian Reserve Bank Cttee. Hon. Editor, *Justice*, 1927-35; Member: India Council of Secy. of State for India, 1936-39; Viceroy's Executive Council for Commerce Dept., 1939-42; Supply Member, 1943; Leader, Indian Delegation, San Francisco, 1945; Leader, Indian Food Delegation to U.K. and U.S.A., 1946; Hon. D.C.L.: Oxford Univ., 1946; Durham, 1953; Chairman: U.N. Cttee. on Forced Labour; International Civil Service Board of U.N.O.; Dewan, Mysore State, 1946-49; Member, Rajya Sabha; Member, I.L.O. Conventions Cttee.; Chairman: India Steamship Co., Ltd.; Tube Investments of India Ltd. *Address*: 'Kensington', Kilpauk, Madras.

MUGALI, Dr. Ranganath Shrinivas, M.A., B.T. (Bom.), D. Litt. (Poona), Kannada writer; Prof. and Head of the Dept. of Kannada, Bangalore Univ. *b.* July 15, 1906; *Educ.*: P. D. High School, Bijapur; Karnatak Coll., Dharwar. Life member, D. E. Society, 1937-66; elected member: Karnatak Univ. Senate, 1950; Academic Council, 1952; Univ. Teacher for Ph.D., Poona Univ. since 1951; Sahitya Akademi Award for *Kannada Sahitya Charitra*, 1956. *Publications*: *The Heritage of Karnatak*; Poems: *Basiga*; *Aparakarune*; *Om Ashantih*; Novels: *Baluri*; *Karanapurusha*; *Anna*; Drama: *Namadhari*; *Vijaya Samrajya*; *Manorajya*; *Ettida Kai* etc.; Short story: *Kanasina Keladi*; Criticism: *Sahityopasane*; *Kannada Sahityada Itihasa*, etc. *Address*: Bangalore 1.

MUKERJEE, Hirendra Nath, M.A. (Calcutta et Oxon.), B.Litt. (Oxon.), Barrister-at-Law, M.P., Communist leader and Educationist. *b.* Nov. 23, 1907; *Educ.*: Calcutta and Oxford. Head of the Dept. of History, Surendranath Coll., Calcutta, since 1936; member: A.I.C.C., 1938; Bengal Provincial Cttee., C.P.I., 1947-49; M.P., since 1952; Dy. Leader, Communist Parly. Group since 1952 and after secession of the Left, leader, 1964-67; member: National Council, C.P.I.; Calcutta Univ. Senate, 1953 and 1957; Central Advisory Board of Archaeology since 1952; Member, Exec. Cttee.: Jawaharlal Memorial Trust; Shastri National Memorial Trust; National Cttee. for Gandhi Centenary. *Publications*: *An Introduction to Socialism* (1939); *China Calling* (1942); *Under Marx's Banner* (1944); *India Struggles for freedom* (1946); *Gandhiji: A Study* (1958); *Himself a True Poem, A Study of Tagore*; *India and Parliament*; *The Gentle Colossus: A Study of Jawaharlal Nehru* and other volumes in English and in Bengali. *Address*: 14, Indian Mirror Street, Calcutta 13.

MUKERJI, Sashadhar, M.Sc., Padma Shri (1967), a leading Film Producer; Chairman, Filmalaya Pvt. Ltd. *b.* Sept. 29, 1909; *Educ.*: Allahabad. Joined Bombay Talkies, 1935; produced *Kangan*, *Bandhan*, *Jhoola*,

Naya Sansar and *Kismet*; founded Filmistan, 1943 and produced *Shikari*, *Sindoor*, *Shahnai*, *Sargam*, *Actress*, *Anand Math*, *Samadhi*, *Sajan*, *Do Bhai*, *Shaheed*, *Anarkali*, *Nagin*, *Nastik*, *Shabnam*, *Jagriti*, *Munimji*, *Paying Guest*, and *Tum Sa Nahin Dekha*; left Filmistan, May 1958; opened Filmalaya Pvt. Ltd.; produced *Dil Deke Deko*, *Love in Simla*, *Hum Hindustani* in colour and *Ek Musafir Ek Hasina*. *Address*: "Grotto Villa", 2nd Hasanabad Lane, Santa Cruz West, Bombay 54.

MUKHERJEE, Ajoy Kumar, Chief Minister, West Bengal, since Feb. 20, 1969; Politician. *b.* April 15, 1901; *Educ.*: Hamilton School, Tamluk; Uttarpara Coll., Hooghly; Presidency Coll., Calcutta. Joined the N. C. movement, 1921; suffered imprisonment several times during the freedom movement; was Supreme Leader, in the "National Govt." established in Tamluk during the "Quit India" movement; elected M.L.A., West Bengal from Tamluk since 1952 and in 1969 mid-term election; Minister for Irrigation, 1952-63; left the Ministry in pursuance of the Kamaraj Plan, Sept. 1963 and devoted himself entirely to organisational work and rural uplift; Pres., West Bengal P.C.C., 1964; left the organisation because of serious differences with his colleagues, Jan. 1966; formed the Bangla Congress, 1966; is its Pres.; Chief Min., W. Bengal, March-Nov. 1967; elected Leader, Leg. U.F. Party, West Bengal, Feb. 20, 1969. *Address*: Chief Minister, W. Bengal, Calcutta.

MUKHERJEE, Biswanath, B.A., Minister for Irrigation and Waterways and Tanks, Small Irrigation Wells, Tubewells and Pump Irrigation for Agriculture, West Bengal, since Feb. 1969. *b.* 1915; *Educ.*: Vidyasagar Coll., Calcutta. Courtied arrest several times in the freedom movement; delegate to Karachi Congress from Bengal, 1931; joined the Communist Party of India, 1934; has been playing a leading role in the peasant movement. Irrigation Minister, U.F. Govt., West Bengal, 1967-68. *Address*: Writers' Buildings, Calcutta.

MUKHERJEE, Dr. Subodh Kumar, M.Sc. (Cal.), M.Sc. and D.Sc. (U.S.A.), General Manager, Fertilizer Corpn. of India Ltd., Trombay Unit. *b.* June 1, 1920; *Educ.*: Presidency Coll. (Calcutta); Massachusetts Institute of Technology, U.S.A. Has been an international expert in the chemical fertilizer field; was responsible as leader of a team of young Indian Engineers and Scientists for building a fertilizer plant at Rourkela; organised the first Project Division in the Fertilizer Corpn. of India; has been a member, U.N. Team of International Experts on fertilizers; member: several scientific and technological Cttees. in India; Industrial Finance Corpn. of India; International Cttee. for development of new fertilizer materials at Zurich; H. K. Sen Memorial Medal of the Institution of Chemists (India), 1967; D. C. M. Chowdhury Memorial Lecturer for 1967. *Address*: Fertilizer Corpn. of India Ltd., Trombay Unit, Bombay 74.

MULLA, Anand Narayan, M.A., LL.B., Sahitya Akademi Award (1964), Urdu Writer; Advocate, Supreme Court. *b.* Oct. 24, 1901, at Lucknow; *Educ.*: Govt. Jubilee High School and Canning Coll., Lucknow. Started writing poems in English, 1917; switched over to Urdu, 1926; practised law at Lucknow, 1926-46; Judge, Allahabad High Court, 1954-58; Senior Judge, Lucknow Bench, 1958-61; M.P. (Lok Sabha) from Lucknow Constituency, 1967; Chairman, Land Acquisition Cttee., 1967. *Publications*: *Mazamin-E-Nehru* (1938); Translation in Urdu of Pandit Nehru's selected articles; collection of poems: *Jue-Sheer* (1949); *Kuch Zare-Kuch Tare* (1959); *Meri Hadise Umre Gurezar* (1963), which won Sahitya Akademi Award 1964. *Address*: 2, China Bazar Road, Lucknow; 29, Ferozeshah Road, New Delhi 1.

MUNDASSERY, Joseph, M.A., Sahityakusala & Sahityanipuna by Cochin Maharaja, Politician and Malayalam Writer; Principal, Co-op. Coll., Trichur. *b.* 1904. Visited China, Soviet Union and European countries; entered active politics, 1946; member, World Peace Council; has been associated with educational activities for several years; was M.L.A. for about 10 years; Minister for Education, Kerala, 1957-60; was Editor of various literary journals and also a daily. *Publications*: More than thirty volumes including fiction, travel, biography, literary criticism and general essays; Some Books: *Karyapeetika*, *Konthayilninnukurisilekku*, *Manushyakathanugayikal*, *Manadandam Natakantam Kavitaum*, *Professor, Vayanasalayil*, etc. *Address*: Trichur.

MUNSHI, Kanaiyalal Maneklal, B.A., LL.B., D.Lit., LL.D., Founder Pres., Bharatiya Vidya Bhavan, since 1938. *b.* 30th Dec. 1887; *Educ.*: Baroda Coll. Advocate, Bombay High Court, 1913; Fellow, Univs., Bombay and Baroda; M.L.A., Bombay, 1927-46; member: Working Cttee., Indian National Congress, 1930; A.I.C.C., 1930-36 and 1947; Secy., Congress Parly. Board, 1934; Home Min., Govt. of Bombay, 1937-39; member, Constituent Assembly of India and of its Drafting Cttee., Parliament, 1947-52; Agent Genl. to the Indian Govt., Hyderabad, 1948; Chairman, Instt. of Agriculture, Anand, since 1951; Trustee, Birla Educ. Trust and other trusts, since 1948; Food and Agriculture Min., Union Govt., 1950-52; Chairman, Sanskrit Vishwa Parishad, since 1951; Exec.-Chairman, Indian Law Instt., 1957-60; Vice-Pres., All-India Swatantra Party; imprisoned in the freedom movement. *Publications*: (Gujarati): Over 50 books, incl. Novels, Plays, Essays, Memoirs; (English): *Gujarat and its Literature*; *Bhagwad Gita and Modern Life*; *Creative Art of Life*; *Saga of Indian Sculpture*; *End of an Era—Hyderabad Memories*; *Warnings of History*; *Reconstruction of Society through Trusteeship*; *Foundations of Indian Culture*; *Krishnavatara* Vols. I, II, III, IV, V & VI; *Indian Constitutional Documents*, Vols. I & II, etc. *Address*: Bharatiya Vidya Bhavan, Chowpatty, Bombay.

MUNSHI, Srimati Lilawati, Chairman, The Women's Adv. Cttee. of Indian Std. Inst., 1967; Vice-Pres., Bharatiya Vidya Bhavan, Bombay, Delhi, Kanpur, Gujarat, since their inception; Pres.: Bharatiya Sangit Shiksha Pith of Bharatiya Vidya Bhavan; All India Women's Central Food Council, New Delhi, 1950-67; and several other bodies; Vice-Pres.: National Council of Women in India, 1953-58; member, Small Scale Industries Board 1962-67; Senate, Sardar Vallabhbhai Vidyapith, since 1956 and its Syndicate, 1962-67; organised Swadeshi Market and was elected its Pres.; thrice imprisoned in the freedom movement; M.P. (Rajya Sabha), 1952-58; Chairman, Instt. of Catering Tech. and Applied Nutrition, 1963-67. *Publications*: *Rekha-chitro Ane Bija Lekha*; *Kumaradevi*; *Jeevamathi Jadel*; *Rekha Chitro—Juna Ane Nava*; miscellaneous articles and speeches. *Address*: Bharatiya Vidya Bhavan, Chowpatty, Bombay.

MURTHY, B. S., B.A., B.Ed., Minister of State for Health and Family Plng., Works, Housing & Urban Devpt., Govt. of India, since Feb. 18, 1969. *b.* Oct. 29, 1907; *Educ.*: Govt. Arts Coll., & Training Coll., Rajahmundry; Christian Coll. and Law Coll., Madras. Journalist; M.L.A., Madras, 1937; Parly. Secy. for Labour and Industry, Madras, 1937-39 and 1946-47; Chief Whip, Madras Leg. Congress Party, 1946-47; courted jail, 1940-42; member, Exec. Cttee., Gandhi Smarak Nidhi, since 1959; led Indian delegation to XIth Intn'l Cfee. of

Social Work held at Rio de Janeiro, 1962; Editor, the *Navjivan*—a Telugu weekly; M.P. Lok Sabha, since 1952; Pres., All-India Depressed Class League, 1959; visited: Europe & U.K., 1949; U.S.A. & Japan, 1962; Union Dy. Min.: C.D. and Co-op., 1962-66; Health & Family Planning, 1966-69. *Publications*: *Revolt of Six Cross*; *Agony*; *Andhra Virakumar*. *Address*: No. 5, Ashoka Road, New Delhi.

MURTHY, Onkar Srinivasa, B.A., B.E. (Hons.), A.M.I. Struct. E. (London), Padma Shri (1959), Chairman, Bharat Heavy Electricals Ltd., since Jan. 1969. *b.* June 26, 1911; *Educ.*: Madras. Selected to the I.R.S.E., March 1936; held various assignments in former G.I.P. Rly., till 1947; designed and completed construction of: Chittaranjan Locomotive Works, 1948-50; Integral Coach Factory, Perambur (Madras), 1951-56; Engineer-in-Chief, Metre Gauge Factory and Locomotive Component Works, Varanasi, 1956-58; Dir., Plng., Rly. Board, 1958; responsible for formulation of the Railways' Five Year Plans; leader, Indian Delegation to the meetings of Intnl. Std.s Org. Working Group, Dusseldorf, 1963, London, 1965; Gen. Manager: W. Rly., 1962-67; S. Rly., 1967-68. *Publications*: Paper on: *Factory Project*. *Address*: Bharat Heavy Electricals Ltd., 5, Parliament Street, New Delhi.

MURTHY, Ramanathpur Venkatesa, M.A., Editor *Records & Statistics*. *b.* Nov. 12, 1906; *Educ.*: Mysore and Bombay. Joined the editorial staff of *Commerce*, March 1936; its editor till 1951; Chief Editor, *The Bharat*, 1951; Spl. Rep., *Eastern Economist*: edits Daily Cotton and Textile Market Review; broadcasts often from the A.I.R. on eco' subjects; is connected with many educational and cultural instts.; is Chairman, Press Guild of India. *Publications*: Has edited and published a number of specialised publications, including *The History of Tech. Educ. in India and Industrial India*; contributes to leading journals in India and abroad. *Address* 5, Ratan Lodge, Bombay 19.

MURTINHO, Wladimir De Amaral, Ambassador of Brazil to India. *b.* 1919. Joined the Foreign Service, 1940; Consul of Brazil in Montreal, 1944-45; Third Secy. in Ottawa, 1945-46; Second Secy.: in Caracas, 1946-48; (in Paris, 1951-53); member, various delegations to the International Confee., 1948-51; First Secy. in Berne, 1953-56; promoted Counsellor, 1952 and Minister, 1961; Minister Counsellor in Tokyo, 1961-63; Liaison Officer, External Affairs Min. with the Brazilian Parliament, 1963-69. *Address*: 8, Aurangzeb Road, New Delhi 11.

MUSAFIR, Giani Gurmukh Singh, M.P. (Rajya Sabha), Ex-Chief Minister, Punjab. *b.* Jan. 15, 1899; *Educ.*: Rawalpindi; Training Coll., Lahore. Took active part in Akali movement; Gen. Secy., S.G.P.C. and Shiromani Akali Dal; joined Congress, 1922; courted jail in freedom movement; member: A.I.C.C., since 1930; Constituent Assembly, 1947-52; Working Cttee.-A.I.C.C., 1952-57; Chairman: Jalianwala Bag Memorial Mg. Cttee., since inception; Reception Cttee., 61st Congress Session, Amritsar; Leader: World Progressive Writers' Confee., Japan, 1961; Indian Writers' delegation to Afro-Asian Confee. in Baku, U.S.S.R., 1965; visited several countries in Europe & Asia. *Publications*: Short stories (Punjabi): *Sasta Tamaha*; *Kandhan Bol Pahirjan*; *Allah Wale*, etc.; (Hindi): *Ek Nai Paise*; Poetry (Punjabi): *Prem Ban*; *Kav Saneh*, *Sehaj Seti*, etc.; General (Hindi): *Anand Marg*; *Gandhi Gita*, etc. *Address*: 21, Ferozeshah Road, New Delhi 1.

MUTHIAH, M.Ct. (Muthiah Chidambaram Muthiah), Banker and Industrialist. *b.* Oct. 19, 1929; *Educ.*: Doon School, Dehra Dun; Allahabad Univ.; Chicago Univ. Chairman: Premier Fertilisers Ltd., United India Fire and General Insurance Co. Ltd., Madras; Trustee, Sir M.Ct. Muthiah Chettiar High School, Madras; Director: India Tourism Development Corpn. Ltd.; Ashoka Hotels Ltd.; Janpath Hotels Ltd.; Ritz Continental Hotels Ltd.; Polychem Ltd.; Mysore Paper Mills Ltd.; Travancore Rayons Ltd.; Indian Overseas Bank Ltd., etc.; Chairman, Madras Race Club and Ootacamund Race Co. Ltd.; Exec. Cttee. Member, Southern India Chamber of Commerce and Industry. *Address*: 'Bedford House', Vepery, Madras 7.

MUTHIAH Chettiar of Chettinad, Dr. Rajah Sir Muthiah Annamalai, Kt., B.A., D.Litt., M.L.C., Pro-Chancellor, Annamalai Univ.; Custodian, Indian Bank Ltd. Madras; Chairman, South India Structural Corpn. Ltd., Madras. *b.* 1905; *Educ.*: Presidency Coll., Madras. Member: Madras Leg., 1930-62; Syndicate, Madras Univ., 1940-46; Indian Constituent Assembly, 1946-50; Chief Whip and Chairman, Justice Party; Mayor of Madras, 1932-33 and 1934-35; *Educ.* and Public Health Min., Madras and Pro-Chancellor, Madras Univ. 1936-37; Local Self-Govt. Min., Madras, 1937; Pres.: Southern India Chamber of Commerce, 1941; F.I.C.C. & I., 1943-44; Local Board, former Imperial Bank, Madras; Trustee, Pachaiyappa's Coll. Board, 1928-63; its Pres., 1942; Dir.: former Imperial Bank; India Reinsurance Corpn. Ltd., Bombay; Madras Tube Co. Ltd., Madras; Binny & Co. Ltd., Madras; & other Cos.; *Chairman*: A. & F. Harvey Ltd., Madras; Madura Mills Co. Ltd., Madras, etc. *Address*: Chettinad House, Rajah Annamalaipuram, Madras 28.

MUTHUSWAMY, M., B.A., B.T., Minister for Local Administration, Tamil Nadu, since March 1967. *b.* 1929; *Educ.*: Namakkal. Elected M.L.A., Madras from Namakkal, 1967; arrested, tried and acquitted in the 1965 anti-Hindi agitation; was Pres., Namakkal Circle Teachers' Union and the Salem Dist. Teachers' Union; had toured U.S.S.R. and other socialist countries as leader, delegation of the Madras City Corporation, July 1968; Chairman, Souvenir Cttee., World Tamil Conference, Jan. 1968. *Address*: "Ponni", Greenways Road, Adyar, Madras 28.

MYSORE, His Highness Maharaja Sri Jaya Chamaraja Wadiyar Bahadur, G.C.B. (1946), G.C.S.I. (1945), LL.D. (1942), D.Litt. (1955), LL.D. (1962); LL.D. Queensland Univ. (Australia) 1963; Maharaja of. *b.* July 18, 1919; *Educ.*: Maharaja's Coll. Mysore; passed B.A. from Mysore Univ., 1938. Has travelled extensively in the Far East, Europe and East Africa, Australia and South America; went on lecture tour of U.S.A., 1959, 1960, 1961, 1962, 1963 and 1965; Raj Pramukh and subsequently Governor of Mysore State till May 1964; Governor of Madras, May '64-May '67. *Publications*: *Dattatraya*; *The Gita and Indian Culture*. *Address*: The Palace, Mysore.

NADKARNI, Laxmikant Madhavrao, B.A. (Hons.) (Bombay), M.Sc. (Econ.) (London), I.C.S., Chairman, Bombay Port Trust, since Sept. 1964. *b.* March 3, 1915; *Educ.*: Elphinstone Coll., Bombay; London School of Economics, London. Held important posts as Asstt. Collector, Under-Secy., Collector, Dy. Secy., Govt. of Bombay, 1939-46; Secy. to the Governor of Bombay, 1948-52; Municipal Commr., Poona, 1952-55; Collector, Kolhapur/Bombay, 1956-57; Commr., Bombay Dvn., 1956-57; Jt. Secy., Min. of Defence & Min. of Home

Affairs, Govt. of India, 1957-63; Adm. Officer/Chairman, Mormugao Port Trust, 1963-64. *Publications*: *District Administration in Bombay Province*—1948; *Mechanised Handling of Bulk Cargo*, 1965; *India's Developing Trade and Port Capacity*, 1966; *Impact of Devaluation on the Economy of Major Ports in India*, 1966. *Address*: North End, 7, Carmichael Road, Bombay 26.

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* Resigned Minis-tership on Oct. 17, 1969.

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Austria, 1959; initiated Congress Forum for Socialist Action, May 13, 1962; Dy. Chairman, Plng., Commn., 1960-63; Union Min. for Labour and Employment, 1962-63; acted as Prime Minister of India, May 27-June 11, 1965 and Jan. 11-24, 1966; Min. for Home Affairs, Govt. of India, 1963-66; Founder Pres., Navjeevan Sangh. *Publications*: *Some Aspects of Khadi*; *History of Wage Adjustment in the Ahmedabad Textile Industry*; *Approach to the Second Five Year Plan*; *Some Basic Considerations* (Aug. 1955). *Address*: No. 5, Tughlaq Road, New Delhi.

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Gen. Secy., 1955-60; Chairman, Party's General Council, since 1960; courted imprisonment several times in his public life; elected M.L.A., Madras from the Triplicane constituency, 1962 and 1967; was Leader of the Opposition in the last Assembly; was Chairman, Public Accounts Cttee. and Ex-Officio member, Estimates Cttee., 1962-67; was Editor, *Nam Nadu*, the party daily for the past nine years and a Tamil weekly *Manram*; author of seven Tamil literary and political books; visited the U.K., W. Germany and other European countries as member, Commonwealth Parliamentary Delegation, 1966; delegate to the World Tamil Confce., Kuala Lumpur, 1966; Min. for Education & Industries, Tamil Nadu, 1967-69. *Address*: Minister for Education, Fort St. George, Madras 9.

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Working Cttee., 1939-51; Pres.: Mysore P.C.C., 1945-46; Karnataka P.C.C., 1946-54; member, Working Cttee. and Parly. Board, Indian National Congress, 1948-53; Constituent Assembly, 1946-52; M.P., 1952-56; Mysore Constituent Assembly, 1948-50; elected Leader, Mysore Leg. Congress Party, Oct. 21, 1956; Chief Min., Mysore State, 1956-58; Chairman, Indian Oil Co. Ltd., upto Dec. 1962; Pres., Mysore P.C.C., 1960-62; M.L.A., Bye-election in 1962; elected Leader, Cong. Leg. Party, June 1962; Ch. Minister, Mysore State, 1962-68; elected M.L.A., unopposed, 1967. *Address*: New Delhi.

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PANDIT, Smt. Vijaya Lakshmi, Ex-Governor, Maharashtra State. *b.* August 18, 1900; *Educ.*: Privately by tutors and governesses. Elected to U.P. Assembly, 1936 & 1946; Min. of Local Self-Govt. and Public Health, U.P. (first woman in India to hold ministerial rank); Pres., All-India Women's Cfee., 1940-42; Vice-Pres., Women's Intl. League for Peace and Freedom; toured extensively in U.S.A.; was present in San Francisco during the first meeting of the U.N. where she challenged the right of the British-appointed Indian delegation to speak for India and voiced India's claim to independence outside the Cfee. hall; Leader, Indian delegation to the U.N.O., 1946, 1947, 1948, 1949, 1950 & 1963; imprisoned thrice in connection with C.D. Movements, 1932, 1941 and 1942; Indian Amb. to: U.S.S.R., 1947-49; U.S.A., 1949-52; Pres., U.N. Gen. Assembly, 1953-54; Governor of Maharashtra, 1962-64; M.P., Lok Sabha from Phulpur, 1964 & 1967; resigned, 1968; has received 16 honorary doctorates from Indian and foreign univs. and a number of awards for work on the intl. bodies. *Address*: 8e, Mafatlal Park, Bombay 26.

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man, Board of Studies in Sindhi, Prof. and Head of the Deptt. of Sindhi, Jai Hind Coll., Bombay, since 1948. *b.* Nov. 20, 1911; *Educ.*: D. J. Sind Coll., Karachi; graduated 1935. Exponent of folklore of Sind; has written dialogues for Sindhi pictures 'Abana' and 'Raj Dyach'; member: Academic Council, Bombay Univ.; Students' Welfare Board, Bom. Univ.; Sindhi Adv. Board, Sahitya Akademi, since 1957. *Publications*: *Qaidi*, *Sharmila*, *Latifa*, *Sindh Ja Sat Natak*; *Padma*; *Adabi Ghuncho*, *Shirin Shair*, *Chund Kalam*, *Sindh Ji Sookhri* and *Sika Ji Soghat*, etc. *Address*: 8, Qureshi Mahal, Bombay 16.

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PARTHASARATHI, G., B.A., (Hons.) (Madras), B.A. (Oxon.), Barrister-at-Law, Vice-Chancellor, Jawaharlal Nehru Univ., since April 29, 1969; *Chairman*, Policy Planning Board, Ext. Affairs Min. *b.* July 7, 1912; *Educ.*: Presidency Coll., Madras; Wadham Coll., Oxford; Lin-

coln's Inn, London. *Asstt. Editor*, *The Hindu*, 1936-49; *Chief Rep.*: P.T.I., Reuter, London, 1949-52; *Chief Editor*, P.T.I., 1951-53; *Chairman*: Intn'l Commn. for Cambodia, 1954-55, Intn'l Supervisory Commn. for Viet Nam, 1955-56; Intn'l Commn. for Supervision & Control, Viet Nam, 1961-62; *Amb. to*: Indonesia, 1957-58; China, July 1958-July 61; *delegate*, U.N., Oct.-Nov. 1961; *Indian High Commr. in Pakistan*, 1962-65; *Pres.*, U.N. Security Council for Sept. 1967; *India's Permanent Rep. in the U.N.*, 1965-68. *Address*: C/o Ministry of External Affairs, New Delhi.

PASHA, Syed Jaffar Sadiq, B.A., B.L., Minister for Public Works, Tamil Nadu, since Aug. 1969. *b.* 1930; *Educ.*: Udamalpet Board High School; Vaniambadi Islamia Coll.; Madras Govt. Muslim Coll.; Madras Law Coll. Member, General Council of the D.M.K. for several years; took keen interest in labour union activities; member, Udamalpet Municipal Council; was for some time Municipal Chairman; *Director and Vice-Pres.*, Udamalpet Co-operative Urban Bank; is an Advocate of the Madras High Court; *Min. for Health*, Tamil Nadu, 1967-69. *Address*: Madras 9.

PATASKAR, Hari Vinayak, B.A., LL.B. (Bombay), LL.D. (Honoris causa), Jabalpur, Sagar & Vikram Univs., Padma Vibhushan (1963), Vice-Chancellor, Poona Univ., since Sept. 1967; *Ex-Governor*, Madhya Pradesh. *b.* May 15, 1892; *Educ.*: Fergusson College, Poona; Govt. Law Coll., Bombay. Enrolled as an Advocate, Bombay High Court and subsequently Supreme Court of India; *Congressman* since 1920; M.L.C., Bombay 1927-30; M.L.A., Bombay, 1937-45; member, Constituent Assembly of India, 1947; M.P., Lok Sabha, 1952; imprisoned during freedom movement, 1942; successfully piloted the Hindu Code Bills; was *Chairman*, Select Cttee., Company Law Bill; successfully mediated in the boundary dispute between Andhra and Madras; member, 4-man Cttee. on Maharashtra-Mysore boundary dispute; *Union Min. for Legal Affairs*, 1955-57; *Min. for Civil Aviation*, 1956-57; *Governor*, Madhya Pradesh, 1957-65; *Chairman*, Assam Hill Area Commn., 1965-66; Member, Jury for the Jawaharlal Nehru Award for International Understanding. *Address*: Vice-Chancellor's Lodge, Univ. of Poona, Poona 7.

PATEL, Babubhai Jashbhai, B.A., LL.B. (Bombay), Minister for P.W.D., Electricity and Civil Supplies, Gujarat, since March 1967. *b.* Feb. 9, 1911; *Educ.*: Nadiad, Baroda, Poona and Bombay. M.L.A., Bombay, 1937-39 and 1946-57; *Parliamentary Secy.* to the Chief Minister, Bombay, 1949-52; *Dy. Minister* for P.W.D. and Transport, 1952-56; *Min. for Planning, Devpt., Electricity and Housing*, 1956-57; *Chairman*: Gujarat State Khadi and Village Industries Board, 1960-67; Gujarat Mineral Development Corpn., 1963-67; member: All India Khadi & Village Industries Board, 1960-67; A.I.C.C.; *Vice-Chancellor*, Sardar Vallabhbhai Vidyapeeth, 1958-61; *Trustee*, Shri Brihad Bharatiya Samaj. *Publications*: Gujarati booklets on *The Tenancy Reforms of the Bombay State; The Sales Tax Law of Bombay State; Food Controls in Bombay State; Roads of Gujarat*; English booklets on:—*Three years of State Transport in Bombay State; State Transport X-rayed*. *Address*: 'Shreyas', Mission Road, Nadiad; 16, Camp Area, Ahmedabad-3.

PATEL, Bhagvatprasad R., M.A., A.I.A., I.C.S., Secy., Deptt. of Agriculture, Govt. of India, since Jan. 1969. *Educ.*: Proprietary High School, Ahmedabad, Gujarat Coll. and Baroda Coll. Joined I.C.S., 1936; took service in Sind; served as *Asstt. Collr.*, *Asstt. Revenue Officer*, *Barrage, Collr.*, *Dy. Secy. and Secy.*, Food & Civil Supplies

Deptt.; was in Ministry of Food, Govt. of India, 1947-48; Chief Secy.: PEPSU, 1948-50; Saurashtra, 1950-54; Dir.-Gen. of Shipping, 1954-55; Vice-Chairman & Gen. Mgr., Air India, 1955-66; Spl. Secy., Union Min. of Commerce, June-July 1966; Chairman, Export Credit & Guarantee Corporation, 1964-67; Secy., Deptt. of Defence Supplies, 1966-67; Secy., Deptt. of Works, Housing & Supply, Govt. of India, 1967-69. *Address*: Department of Agriculture, Ministry of Food & Agriculture, Govt. of India, New Delhi.

PATEL, Dr. Chaturbhai Shankerbhai, B.A. (Hons.) & M.Sc. (Bombay), Ph.D. (Chemistry) (Leeds), Vice-Chancellor, M.S. Univ. of Baroda, since April 30, 1964. *b. Nov. 7, 1897*; *Educ.*: Sojitra High School, Sojitra; Baroda Coll.; Leeds Univ. Prof. of Chemical Technology and Dye House Supdt., Kalabhavan Tech. Instt., 1921-41; Dir., Technological Instt. & Industrial Chemist, Baroda, 1941-49; member, Bombay Univ. Senate, 1935-47; Prof. of Chemistry, Faculty of Science, M.S. Univ. of Baroda, 1950-51 and Dean, Faculty of Sc., 1951-54; Pro-Vice-Chancellor, 1953-64; member: Industrial Research Cttee., Govt. of Bombay; Food Industries Panel No. 1 (Milk and milk products), Food Directorate, Govt. of India; Exec. Cttee., Indian Sc., Congress Assoc.; widely travelled. *Address*: 'Dhanvantari', University Road, Baroda 2.

PATEL, Harihar, B.A., B.L., Minister, Industries, Commerce, Public Relations, Jails and Text Book Press, Orissa Govt. *b. Sept. 20, 1924*; *Educ.*: B. S. High School, Sundargarh (Orissa); Ravenshaw Coll., Cuttack. During student career joined 'Quit India' and Prajamandal movements; Founder Member, Ganatantra Parishad which merged with Swatantra Party later; General Secy., Ganatantra Parishad, 1955-57; elected to Rajya Sabha, 1958; elected to Orissa Leg. Assembly, 1961; Gen. Secy., Swatantra Party, Orissa Unit, 1964-66; Editor-in-Charge, *Daily Ganatantra*, 1961-65. *Publications*: Poetry: *Gunjara*, in Oriya, *Sethjinkara Gandhi Jayanti* (Short Stories) and many essays on politics and on various problems. *Address*: Minister for Industries and Commerce, Orissa, Bhubaneswar-1.

PATEL, Dr. Indraprasad Gordhanbhai, B.A. (Bom.), B.A. (Cantab.), Ph.D. (Cantab.), Spl. Secy., Min. of Finance, Deptt. of Economic Affairs, Govt. of India, since Jan. 1968. *b. Nov. 11, 1924*; *Educ.*: Baroda; England. Prof. of Economics, M.S. Univ. of Baroda, 1949-50; with the I.M.F., 1950-54; Dy. Econ. Adviser, Min. of Finance, Govt. of India, 1954-58; Alternate Exec. Dir. for India, I.M.F., 1958-61; Visiting Prof. of Economics, Univ. of Delhi, 1964; Chief Econ. Adviser, Min. of Finance, Govt. of India, 1961-63 and 1964-68; delivered Shastri Memorial Lectures, Jan. 1968. *Address*: 11, Tin Murti Lane, New Delhi 11.

PATEL, Surgeon Captain Jal Ratanji, M.D., F.C.P.S., F.C.C.P., F.I.C.A., F.A.C.C. (U.S.A.), Padma Bhushan (1962), Hon. Physician to the President of India; Dir., Postgraduate & Research in Pharmacology, Grant Medical Coll., Bombay; Ex-Prof. of Pharmacology now Emeritus Prof. of Pharmacology, Grant Medical Coll., Bombay; Ex-Chairman, Central Drug Research Institute, Lucknow; Fellow: American Coll. of Chest Physicians; International Coll. of Angiology, U.S.A.; American Coll. of Cardiology; Examiner in M.D., and Ph.D., Univs. of Bombay, Lucknow and Madras; Hon. Cardiologist for Defence Service Personnel stationed in Bombay (I.N.H. Aswini); Hon. Consulting Physician, Bombay Telephones; Hon. Consulting Physician and Cardiologist, Central & Western Railway hospitals, Bombay; Nominated Member,

Maharashtra Medical Council, since Aug. 1964; awarded Hon. Rank of Surgeon Captain in the Indian Navy by the President of India, 1961; Fellow, Univ. of Bombay; Member, Indian Institute of Biochemistry and Experimental Science (Calcutta). Research Work: Some observation on the blood pressure of dogs with special reference to Supra Renal Cortex, Experimental work on Tranquillizer, etc. *Address*: Bombay House, 24, Bruce Street, Fort, Bombay 1.

PATEL, Shantilal Vithalbhai, B.A., LL.B. (Bombay), Ambassador of India to Brazil, since March 1969. *b. Aug. 1, 1916*; *Educ.*: Bombay Univ. Indian Trade Commissioner in East and Central Africa, Mombasa, 1949-53; Indian Trade Commissioner in Sydney, Australia, 1953-56; First Secy., Indian Embassy, Bonn, 1957; Indian Consul General at Hamburg, 1957-59; Commercial Counsellor, Indian Embassy, Cairo, 1959-63; Ambassador of India to Hungary, 1963-66; High Commissioner of India to Ghana and Sierra Leone and Ambassador of India to Liberia, 1966-69. *Address*: C/o External Affairs Ministry, New Delhi.

PATELL, Jehangir J. K., B.A., F.C.A., F.C.C.S., R.A., F.C.R.A., F.I.C.S., J.P. and Hon. Presidency Magistrate, Secy.-Genl., W.I.A.A., and Secy., Asian Zone of the A.I.T. and Regl. Office for Southern Asia of the O.T.A. *b. 2nd August 1905*; *Educ.*: St. Xavier's School and Coll.; Davar's Coll. of Commerce and School of Accountancy, London. Vice-Patron and Life Member: Bombay Presidency Olympic Assoc. and the Bombay Symphony Orchestral Soc.; W.I.A.A.; W.I.F.A.; Member: Asiatic Soc. of Bombay; Dt. Grd. Puruivant, Dt. Grd. Lodge, E.C. and Dt. Grd. Almoner, Dt. Grd. Lodge, S.C.; Hon. Grand 'J' of the Grand Chapter, U.S.F.I.C.; Hon. Treasurer, B'bay Dt. Soc. of Incorporated Secretaries; member, Assoc. of Secretaries, Bombay. *Address*: Office: 76, Veer Nariman Road, Churchgate Reclamation, Bombay 1; *Res.*: Lalchand Mansion, Dubash Estate Road, Celaba, Bombay 5.

PATHAK, Gopal Swarup, Vice-President of India, since Aug. 31, 1969. *b. Feb. 28, 1896*; *Educ.*: Govt. Coll., Lahore; Allahabad Univ. Started practice of Law at Bareilly, 1919; shifted to Allahabad High Court, 1928; Judge, Allahabad High Court, 1945-46; resumed practice, 1946; appointed Honorary Legal Adviser particularly on international law, 1951; seven times member, Indian delegation to the U.N. to give expert legal advice on the Kashmir issue, 1946-59; visited several countries as special representative of Prime Minister Nehru with honorary rank of Ambassador to apprise India's stand on Kashmir, 1957; elected to the Rajya Sabha, 1960; served on a number of parliamentary Committees; Law Minister, Govt. of India, 1966-67; Governor of Mysore, May 1967-Aug. 1969. *Address*: 6, Maulana Azad Road, New Delhi 11.

PATHAK, Murlidhar Sadashiv, B.Sc., B.E. (Mech.), B.E. (Electrical), Master, India Security Press and ex-officio Controll. r of Stamps, since Aug. 6, 1960. *b. Aug. 21, 1914*; *Educ.*: Govt. High School, Nasik City; Fergusson Coll., & Engg. Coll., Poona. Joined the Corps of Indian Engrs. at Madras Sappers & Miners, Bangalore, Nov. 1, 1941; commnded as an Emergency Commnded Officer, May 2, 1942; services in Iraq, Iran, Palestine and India; rank on release: War Substantive Captain; released under class 'B' scheme to join India Security Press as Asstt. Master; Asstt. Master, June 5, 1946-March 17, 1951; Dy. Master, March 18, 1951-Aug. 5, 1960; undertook observation tour of U.K., Switzerland and Italy in 1963. *Address*: Caxton House, Nasik Road (C. Rly.).

PATIALA, Lieutenant-General His Highness the Maharajahdhiraj Yadavindra Singh Mahendra Bahadur, G.C.I.E., 1946, G.B.E., 1942, LL.D., Maharaja of, Ex-Indian Ambassador to Italy. *b.* 1913; *Educ.*: Aitchison Coll., Lahore; Hon. LL.D., Banaras Hindu Univ., 1939, Punjab Univ., 1949. Was Rajpramukh, PEPSU, till 1956; Founder and Hon. Life Pres., Asian Games Federation; Pres., Indian Olympic Assoc. till Jan. 1960; Chairman, All India Council of Sports; was Chancellor of the Chamber of Princes; served war in Malaya, Italy and Burma, 1939-45; Indian Delegate to the: XIth Session of the U.N., New York, 1956-57; UNESCO Cfee., Paris, 1958; leader, Indian delegation to F.A.O. Cfee., Rome, 1959, 1961-62, 1963 and 1967. *Address*: Motibagh Place, Patiala, Punjab (Winter); Rajgarh Palace, Chail (Simla Hills) (Summer).

PATIL, Rajaram Anant, LL.B., Minister for Industries, Electricity & Printing Presses, Maharashtra, since March 1967. *b.* Aug. 1, 1920; *Educ.*: Kasegaon, Poona, Baroda and Kolhapur. He has been a prominent political worker in Western Maharashtra; Pres., S. Satara Dt. Local Board, 1952-62; Pres., M.P.C.C. and later its Gen. Secy.; was Chairman, Maharashtra Cooperative Housing Finance Society, Bombay; was member, Maharashtra State Electricity Consultative Council; membership: Poona Univ.; Shri Chhatrapati Shivaji Univ. Cttee., 1961; deputed by A.I.C.C. to U.K. to study working of various political parties in U.K., 1960-61, M.L.A., Maharashtra from Walva Constituency, 1962 & 67; Dy. Minister for Revenue & Forests, 1962; Min. for Revenue '65-Feb. '67. *Address*: 'Udayan', Ridge Road, Malabar Hill, Bombay 6.

PATIL, S. K., M.P. (Lok Sabha), Ex-Minister for Railways, Govt. of India; Treasurer, All India Congress Committee. *b.* Aug. 14, 1900 in Ratnagiri Dist.; *Educ.*: St. Xavier's Coll., Bombay; London Univ.; studied journalism at the London School of Economics and London Univ. Joined N.C. Movement, 1920; conducted National School 1921-24; was imprisoned 8 times for participation in C.D. and Freedom Movement; was member, Bombay Municipal Corpn. for 20 years; was Gen. Secy., B.P.C.C. for 17 years; M.L.A., Bombay, 1937-46; Pres., B.P.C.C. for 10 years; was member, Central Board of Film Censors; was Chairman, Govt. of India Film Enquiry Cttee. and Cantt. Cttee.; elected Mayor of Bombay for three consecutive terms 1949-52; member: Constituent Assembly 1947-50; Provisional Parliament 1950-52; was Fellow, Royal Geographical Society for 4 years; was Pres., Indian Motion Picture Producers' Assoc. for a year; member Lok Sabha 1952-67; Union Min. for Irrigation & Power 1957, Transport & Communications 1958-59; Food & Agriculture 1959-63; resigned as Min. under 'Kamaraj Plan' 1963; Min. for Railways 1964-67; Treasurer, A.I.C.C., 1960-63 and since 1968; member: A.I.C.C. since 1934; Congress Working Cttee., 1957 & since 1960; Central Parly. Board, since 1963; travelled extensively in Europe, U.S.A., Latin American countries, U.S.S.R., Middle Eastern, African and Eastern countries; Pres. of numerous social, cultural and educational institutions like All-India Humanitarian League, Balkan-ji-Bari, Brihad Bharatiya Samaj, India Peace Corps, Indo-German Cultural Society, International Club of India, International Forum, Marathi Granth Sanghralaya, Vallabhbhai Patel Memorial Trust, and many others. *Address*: Shanti Kuteer, Marine Drive, Bombay 20 BR.

PATIL, Sangnbasappa Mallangowda, B.E. (Mech.) & (Elec.) (Bombay), (M. I. Prod. E.) (Lond.), M.I.E. (India), Hony. D.Sc. (Karnatak Univ.), Sir Walter Puckey Prize by the Institution of Production Engineers,

London, 1965; Padma Shri, 1966, Chairman, since 1967 and Mg. Director, since 1964, Hindustan Machine Tools Ltd., Bangalore. *b.* Jan. 1, 1919; *Educ.*: Bombay. Works Manager, Cooper Engg. Ltd., 1950-53; Supdt. (Works), Hindustan Machine Tools Ltd., 1953; Asstt. Gen. Technical Manager, H.M.T., 1954-56; Dy. General Technical Manager, 1956-59; General Manager, 1959-62; Director of the Board, 1962; visited Europe on several assignments; Consultant to the ECAFE on the development of machine tool industry in that region; attended symposium on the Devpt. of Metal working Industries in Developing countries at Moscow, 1966. *Address*: Hindustan Machine Tools Ltd., Bangalore 31.

PATIL, Veerendra, B.A., LL.B., Chief Minister, Mysore, since May 29, 1968. *b.* Feb. 28, 1924, in Chincholi, Gulbarga Dist.; *Educ.*: Govt. High School, Gulbarga; Osmania Univ., Hyderabad. Practised Law 1947 & 1950-55; became Gen. Secy., Hyderabad P.C.C.; returned to Hyderabad State Assembly from Aland Constituency, 1952; elected on Congress ticket from Chincholi Constituency in 1957 and 1962; Dy. Minister for Home and Industries, Mysore, till May 16, 1958; Organising Secy., Mysore P.C.C. till 1960; Pres., D.C.C., 1960-61; Minister for Excise and Rural Industries, 1961-62; Public Works and Transport, 1962; Public Works, since 1962; member: Exec. Cttee., M.P.C.C.; A.I.C.C., since 1957; Chairman, State Advisory Board on ports; is member, National Harbour Board; member, Indian delegation to U.S.S.R., June 1965; M.L.A. Mysore, 1967; Min., P. W. & Electricity, Mysore, 1967-68. *Address*: Vidhansoudha, Bangalore 1.

PATNAIK, Bijoyananda, Ex-Chief Min., Orissa. *b.* March 5, 1916; *Educ.*: Ravenshaw Coll., Cuttack. Joined the Indian National Airways and became its ace pilot; took active part in the "Quit India" movement; courted jail for his activities in the freedom struggle; flew the Indonesian Premier Mr. Sutan Sjahrir to New Delhi during the Indonesian freedom fight against the Dutch; landed the first Indian plane in Kashmir when Pakistan attacked her; took to industries after returning to Orissa; among his concerns is the Kalinga Airways; elected to Orissa Assembly from Choudwar during the mid-term election, 1961; Chief Min., Orissa, 1961-63; resigned under the "Kamaraj Plan," Aug. 1963. *Address*: Bhubaneswar.

PATNAIK, Kali Charan, Kavichandra (1942), Natyacharya (1944), Oriya Poet and dramatist; writer of Children's Literature. *b.* Dec. 23, 1898; *Educ.*: Ravenshaw Coll., Cuttack. Founder-Dir., Sakhigopal Natya Sangh 1926-39; Orissa Theatres 1939-50; Founder: Suralekha Record Productions; Odissi Music & Dance Instt.; Founder-Pres., Utkal Natya Sangh; Chairman, Board of Studies in Music, Utkal Univ. 1949-57; member, Orissa Sangeet Natak Academy, since 1954; its Vice-Pres., and Fellow, Central Sangeet Natak Akademi since 1968. *Publications*: 72 Oriya and 2 Hindi Dramas; Short Stories; Songs; Music; Dance; Dance-Dramas; One-Act Plays; Lyric composer of three films, 1949-58. *Address*: "Kavi Nivas", Jagannath Ballav, Cuttack-1 (Orissa).

PATTAMMAL, Smt. D. K., Sangeet Natak Akademi Award (1962), Musician (Karnatak Vocal). *b.* March 28, 1919; *Educ.*: Kancheepuram. Was awarded the title of "Gana Saraswathi" by the late Tiger Varadachariar in 1943. *Address*: 7, Srinagar, Madras 15.

PAVATE, Dr. Dadasaheb Chintamani, B.A. (Hons.) (Bombay), M.A. (Cantab.), Padma Bhushan (1967), Governor of Punjab since Oct. 16, 1967. *b.* Aug. 2, 1899; *Educ.*: Sidney Sussex Coll., Cambridge. Prof.,

Mathematics, Banaras Hindu Univ., 1928-30; admitted to the Bombay Educ. Service Class I, June 1930; Dir. of Public Instruction, Bombay State, 1947-54; member, Official Language Commn., 1955-56; Leader, Indian Delegation to the 19th Intn'l Educ. Cfee., Geneva, July 1956; visited several Univs. abroad; member: Univ. Grants Commn.; Vice-Chancellor, Karnatak Univ., 1954-67. *Publications*: *Modern College Calculus*; *Modern College Algebra*; *Memoirs of an Educational Administrator* and some other books in Mathematics. *Address*: Raj Bhavan, Chandigarh.

PEGOV, H. E. Mr. Nikolai Mokhailovich, Ambassador Extraordinary and Plenipotentiary for U.S.S.R. in India, since 1967. *b.* 1905 in Moscow; *Educ.*: Took Diploma in Engineering. Held leading executive posts; elected First Secy., Primorsky Regional Cttee., Communist Party of the Soviet Union (CPSU), 1938; became member, Central Cttee., CPSU., 1938 and its Secy., 1952; elected a Deputy of the Supreme Soviet of the U.S.S.R., several times; Secy., Presidium of the Supreme Soviet of the U.S.S.R., 1953-56; Soviet Amb. to Iran, 1956-63 and to Algeria, 1964-67; received 11 Govt. awards for services in the economic, social and diplomatic fields. *Address*: Soviet Embassy, New Delhi.

PENDSE, Shripad Narayan, B.Sc. (Bombay), Marathi Writer; Rockefeller Fellow, 1955-56. *b.* Jan. 5, 1913; *Educ.*: Bombay. Wrote his first novel *Elgar*, 1949; toured the Continent, U.K., U.S.A., and South-East Asia, under Rockefeller fellowship, 1955. *Publications*: *Khadakavaril Hiraval* and *Jumman*, two collections of short stories; Novels: *Elgar* (awarded a prize as the best book of the year); *Haddapar*, *Garambeeche Bapoo*, *Hatya* (1954) and *Kalendar* (1959); *Mahapur*—a play (1961); *Rathachakra*—a novel (1962); won Sahitya Akademi Award for the best book in Marathi, 1963; *Raitemaster* (1964), *Yashoda* (1965) and *Garambeeche Bapoo*, are now adopted for the stage; *Yashoda* (1966); *Lavali* (1966); *Sambhusanchya Chalit* (1968)—awarded Govt. Prize as the best plays in the state competition. *Address*: 10, Tukaram Niketan, Mainak Wadi, Matunga, Bombay 16.

PERERA, H.E. Mr. Siri, Advocate of the Supreme Court and Queen's Counsel; High Commissioner for Ceylon in India. *b.* Oct. 6, 1909; *Educ.*: Ananda Coll & Univ. Coll., Colombo; called to the Bar, March 6, 1933. Practised in Colombo and outstations mostly on the criminal side; led for the defence in a number of sensational murder trials in the Supreme Court; was made one of Her Majesty's Counsel for Ceylon, Aug. 1965; took active part in politics; keenly interested in Buddhist activities; Vice-Pres. and member, Board of Governors, Colombo Y.M.B.A.; member, Board of Management, Maha Bodhi Society of Ceylon; Trustee and member, Cttee. of the National Council for the Deaf and Blind of Ceylon. *Address*: Ceylon High Commission, 27, Kautilya Marg, New Delhi 21.

PILLAI, C. I. Parameswaran, B.A., B.L., Central Akademi Award for Malayalam Stage Acting (1959), a leading Malayalam Stage Actor; Chairman, Kerala Sangeet Natak Akademy, 1965-68; Kerala Govt. nominee, Central Sangeet Natak Akademi, 1967; member, faculty of Fine Arts, Kerala Univ., since 1960; Advocate and Legal Adv. to Kerala Co-op. Central Land Mortgage Bank Ltd., Trivandrum. *b.* Feb. 1898, at Alwaye; *Educ.*: Kottayam, Trichinopoly and Trivandrum; called to the Bar, 1930. Chief Legal Adv. to the Kerala Univ., 1955-60; Vice-Chairman, Kerala Sangeet Natak Akademi, 1956-59; engaged in amateur stage activity for over 40 years,

developed his own style and technique in acting. *Address*: Advocate, Vanchiyoor, Trivandrum.

PILLAI, Namakkal Kavignar Ramalingam, Poet Laureate (1948), ex-M.L.C. (Madras). Tamil Writer. *b.* Oct. 19, 1888; *Educ.*: B. H. School, Namakkal; Arts Coll., Coimbatore. Professional Artist and portrait painter, 1909-20; joined the N. C. Movement, 1921; composed songs for the Movement; courted jail in the movement; gave up the artist's profession and contd. composing songs for the Gandhian cult; was popularly called the Gandhian poet; nominated M.L.C., Madras. *Publications*: Books of poetry, novels, research books and treatises: new commentary of *Thirukkural*. *Address*: Namakkal, Dt. Salem, Tamil Nadu.

PILLAI, P. S. Veerusami, Sangeetha Kalandidhi (1962), Nathaswara Vidva Sironmani, Esaikunamani Esaipparingar (1959), National award (1966), Nathaswaram Artist. *b.* 1901 at Perambur Village, Tanjore Dist.; *Educ.*: Learned Nagaswaram under his father; had further trng. under Vidwan Konerirajapuram Vaidyanatha Iyer, Violin Vidwan Govindasami Pillai and Vidwan Nagasuram Natarajasundaram Pillai; became Adheena Vidwan of Tiruvavaduthurai and Dharmapuram and Asthana Vidwan of Nachiar Devasthanam of Srivilliputtur and of T. T. Devasthanam, Tirupathi; had been honoured in the States of Cochin and Travancore and by several public bodies and heads of several Maths and Devasthanams in the South; awarded Mathyarsuna Mahanadhamani, by H. H. Sankaracharya of Kancheeppuram, 1964. *Address*: Tiruvidaimarudur (Dt. Thanjavur), S. India.

PILLAI, Thakazhi Sivasankara, Malayalam Writer; Laywer. *b.* April 14, 1914; *Educ.*: Home Village; High School, Karuvatta; Law course, Trivandrum. Began writing at the age of 15; one of the pioneers of realism in Malayalam literature and the progressive movement in Kerala; won the Sahitya Akademi award in 1957 for the novel *Chemmeen* which has been translated into Russian and Czech, and English; his novel *Rantidangazhi* is being translated into all the major languages in India by the Sahitya Akademi; member, Kerala Sahitya Akademi. *Publications*: More than 500 short stories and 15 novels. *Address*: Thakazhi, Ambalapuzhai, Kerala.

PISHAROTY, Dr. Pisharoth Rama, B.A. (Hons.), M.A. (Madras), M.A. (Calif.), Ph.D. (Calif.), Scientist; Professor, Physical Res. Laboratory, Ahmedabad. *b.* Feb. 10, 1909; *Educ.*: Trichinopoly, Bangalore and California (Los Angeles). Conducted substantial research under Sir C. V. Raman at Bangalore; joined the India Meteorological Deptt., 1942; Research Meteorologist in U.S.A., 1952-54; is a member, Meteorological Soc.s in India, U.K., and U.S.A.; Fellow, Indian Academy of Scs.; Indiap rep. at several intn'l meetings of the World Meteorological Org.s, since 1954; member: Joint Organising Cttee., W.M.O./ISCU; Ind. Nat. Cttee. for Space Research, India. *Publications*: 50 Scientific papers—about ten in physics and the rest on meteorology and geomagnetism. *Address*: Professor, Physical Research Laboratory, Ahmedabad 9.

PITAMBER DAS, B.A., LL.B., Politician; Vice-Pres., Bharatiya Jana Sangh, since 1961. *Educ.*: Devanagiri High School, and Meerut Coll., Meerut. Legal practice, 1932-58; Congressman till 1947; Sangchalak of R.S.S. for Mawana, U.P., 1946-51; convicted for R.S.S. activities; courted jail in Kashmir agitation and food agitation in U.P.; joined Jana Sangh at its inception, 1951; Pres. for Meerut Dist., Jana Sangh, 1951-54; Provincial Secy., U.P., 1955; Pres., Jana Sangh, U.P., 1956-58 & 1961-62; member, U.P. Leg. Council, 1956 and 1962; Leader, J.S. Leg.

Party, U.P., since 1962; Pres.: Bharatiya Jan Sangh, 1960; Shree Badrinath Temple Cttee., 1967; member: Roorkee Univ. Syndicate, since 1960. *Address*: Mawana, Meerut Dist., U.P.

PODAR, Ramnath Anandilal, Industrialist and business man, Pres., F.I.C.C.I. for 1969-70. *b.* Jan. 21, 1910; *Educ.*: Marwari Vidyalaya High School. Joined father's business, 1927; Chairman: Podar Group of Concerns; Indian Cotton Mills Federation, 1963-65; Export Credit Guarantee Corp., 1962-64; Rajasthan Chamber of Commerce & Industry, 1957-58 & 1960-68; The Rajasthan Financial Corp., 1955-68; Millowners' Assoc., Bombay, 1957-60; Cotton Adv. Board, 1946-52; Dir., State Bank of India, 1957-67; J.P.; M.P., 1952-54; Bombay Leg. Assembly, 1956-62; Bombay Municipal Corp., 1943-52; Dy. Chairman, Bombay Textile Research Assoc., 1959-65; Pres., Indian Merchants' Chamber, 1966-67; member: Export-Import Adv. Council; and Vice Pres., F.I.C.C.I.; All India Org. of Industrial Employers; Millowners' Assoc., B'bay; A. I. Assoc. of Industries; Ind. Nat. Cttee. of Intn'l Chamber of Commerce; Dir., many commercial and industrial enterprises. *Address*: Podar Chambers, Fort, Bombay 1.

POLSON, Minoo Pestonji, A.S.E., F.R.S.A., F.R.G.S., F. Inst. D., J.P., Mg. Dir., Polson Ltd. *b.* Dec. 4, 1909; *Educ.*: Cathedral & John Connon High School, Bharda New High School and the Imperial Inst. of Animal Husbandry & Dairying. Founder and Ex-Chairman, Bombay Soc. of Model Engrs., an Associate of the Soc. of Engrs., England, 1948; visited Denmark and U.S.A., 1962, under US-Aid N P C Programme, with Food Preservation and Food Canning Industry Study Team; awarded specially coined medal by His Holiness Pope Paul VI in appreciation of services rendered during the 38th Intn'l. Eucharistic Cong., 1965; apptd. on the Central Adv. Board of Educ., Parsi Panchayat, 1965; Pres., Empire of Indian Philatelic Soc.; Ex-Chairman; English Speaking Union (Bombay Branch). *Address*: Moti Mahal, Churchgate Reclamation, Bombay 1.

POONACHA, Cheppudira Muthana, Minister for Steel & Heavy Engineering, Govt. of India, since Feb. 14, 1969. *b.* 1910, Attur Village, South Coorg; *Educ.*: Mercara and Virajpet in Coorg and St. Aloysius Coll., Mangalore. Often imprisoned during independence movement; Member, Exec. Cttee., Karnatak P.C.C., 1938; A.I.C.C., 1938; Coorg Dist. Board, 1938, and its Pres., 1941; Coorg Leg. Council and Leader of the Congress Leg. Party in the Council, 1945-51; Constituent Assembly and Provisional Parliament, 1947-51; Chief Min. of Coorg, 1952-56; Min. for Industries and Commerce, 1956 and then for Home and Industries, Mysore; Chairman, S.T.C., 1959-63; Leader, Govt. Trade Delegation to East European countries, 1960 and S.T.C. Delegation to Japan, 1961 & East Europe, 1963; M.P., Rajya Sabha, April 1964; Min. of Revenue and Expenditure, Union Fin. Ministry, Jan. 1-24, 1966; Min. in the Min. of Transport, Aviation, Shipping & Tourism, Govt. of India, 1966-67; Min. of Rlys., 1967-69. *Address*: 10, Akbar Road, New Delhi; Home Estate, Attur Post, Via Pollibetta, South Coorg, Mysore State.

POTDAR, Datto Vaman, Mahamahopadhyaya (1946), Sahitya Vachaspati, Prayag, B.A. (Bombay), Hony. Doctor of Letters (Banaras Hindu Univ. and Poona Univ.) (1967), Padma Bhushan (1967), Chairman, Central Sanskrit Board, Govt. of India; Ex-Vice-Chancellor, Poona Univ. *b.* Aug. 5, 1890; *Educ.*: Poona. Orator, Educationist; research in Maharatta History and Literature; founded the Indian History Congress, Poona, 1935; presided over its Delhi session, 1948; President's Award (Sanad), 1961;

Pres., Marathi Sahitya Maha-Mandala; Kul-Guru, Tilak Vidyapeeth, Poona; Pres., Maharashtra Rashtra Bhasha Sabha; led Vice-Chancellors' delegation to U.S.S.R. and visited the Mongolian Republic 1963. *Potdar Commemoration Volume*, presented on Oct. 28, 1950. *Publications*: *A History of Marathi Prose Literature, Inside Maharashtra, Srote Ho! Me Yuropant Kay Pahilen*, etc. *Address*: 498, Shanwar Peth, Poona 2.

PRABHA, Smt. B., G.D. Art. in Painting, Painter. *b.* Jan. 1, 1931; *Educ.*: Sir J.J. School of Art, Bombay. First prize of Maharashtra Govt. exhibition, 1958; many other prizes and medals till 1960; 15 one-man shows of her paintings in India and abroad; visited eastern countries, 1962 and Australia & New Zealand, 1965; painted a mammoth mural at Tokyo for the Indian Embassy; painted murals for Air India office, Bangkok and Indian Overseas Bank Building, Madras and Syndicate Bank Ltd. at Manipal, Bangalore, Bombay, Delhi and Melbourne. *Address*: Studio Sea Green, Flat No. 4, Worli Sea Face, Bombay 18.

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PRAKASH, Dr. Brahm, M.Sc., Ph.D., Sc.D., Padma Shri (1961), Bhatnagar Memorial Award for Engg. Sciences (1963), Padma Bhushan 1967, Fellow, National Inst. of Sciences; Director, Metallurgy Group, Bhabha Atomic Research Centre. *b.* Aug. 21, 1912; *Educ.*: Punjab Univ., Lahore; Massachusetts Institute of Technology, Cambridge, Massachusetts (USA). Prof. and Head of the Dept. of Metallurgy, Indian Institute of Science, Bangalore, 1951-57; Scientific Secy., 1st Conference on Peaceful Uses of Atomic Energy, UN, Geneva, 1955; Scientist, B.A.R.C., since 1957; directed the design and construction of fuel fabrication plant at the Bhabha Atomic Research Centre. *Publications*: Some 25 research and scientific papers in physical chemistry and metallurgy especially on the extraction of zirconium. *Address*: Bhabha Atomic Research Centre, Apollo Pier Road, Bombay 1.

PRASAD, Baleshwar, M.A. (English), I.A.S., Ambassador to Burma, since Oct. 1969. *b.* Jan. 1, 1914; *Educ.*: Patna Coll., Patna Univ. I.A.S. Officer in Bihar, 1950-56; Political Adv. to the Indian Delegation to Intn'l Commn. for Supervision and Control in Viet Nam (1956-59); Dewan of Sikkim (1959-63); Chief Commissioner, Manipur, 1963-69. *Address*: C/o External Affairs Ministry, New Delhi.

PRITAM, Smt. Amrita, Sahitya Akademi award (1956), Writer, Editor, *Nagmani* (monthly). *b.* Aug. 31, 1919; *Educ.*: Lahore (Punjab). Edited a monthly in Punjabi, *Navin Dunian*, 1938-40; Staff Artist, A.I.R., 1948-60; started a Punjabi monthly, 'Nagmani', May 1966. *Publications*: 14 collections of poems, 13 novels and six collections of short stories. *Address*: K 25, Hauz Khas, New Delhi 16.

PURACHATRA, His Highness Prince Prem, M.A. (Oxon), D.Litt., Thai Ambassador to India and Ceylon, and Minister to Nepal. *b.* Aug. 12, 1915; *Educ.*: Harrow and New College, Oxford. Lecturer at Chulalongkorn Univ., Bangkok, 1938-42; Head of Modern Languages Dept., Chulalongkorn Univ., 1942; Rajpandit (Academician), 1942; Special Professor of Thammasat Univ., 1955-68. *Publications*: *Magic Lotus, Siamese Idyll, The Story of Khun Chang Khun Phan; Phra Ahai Mani; The Songgran Moon*, etc. *Address*: The Royal Thai Embassy, 56-N, Nyaya Marg, Chanakyapuri, New Delhi-21.

PURI, Yogendra Krishna, I.C.S., Indian High Commissioner to Ceylon, since Sept. 1969. *b.* July 25, 1916; *Educ.*: Govt. Coll., Lahore; Univ. Coll., London. Joined the I.C.S., 1938; served in Assam successively as Asstt. Commr., Under-Secy. (Pol.) and Secy., Supply Deptt. till Oct. 1946; apptd. to the Fin. & Commerce Pool, Govt. of India, 1946; Dy. Secy., Fin. Min., July 1947; Min. without Portfolio, Oct. 1947; Dir.-Gen., Rehab. Min., 1948; Dy. High Commr. for India in Pakistan, Lahore, 1948-51; Dy. Secy., Min. of Ext. Affairs, 1951-53; Counsellor, Indian Embassy, Paris, 1953-55; Counsellor, Indian High Commn., London, Sept. to Dec. 1955; Jt. Secy., Min. of Ext. Affairs, 1956-60; High Commr. in Malaya 1960-64; Amb. to Morocco and Tunisia, 1964-67; Sweden, 1968-69. *Address*: C/o Ministry of External Affairs, New Delhi.

PURUSHOTTAM, Jatavallabha, M.A. (Madras) in Sanskrit and Telugu, Sanskrit Writer; Pres., Andhra Pradesh Viswa Hindu Parishad; Member, Classical Languages Devpt. Cttee., A. P. Govt. *b.* Aug. 2, 1906; *Educ.*: Taylor High School, Narsapur; Maharajah's Coll., Vizianagaram. Lecturer in Sanskrit, S.R.R. & C.V.R. Govt. Coll., Vijayawada, 1948-61; Principal, S.V.J.V. Sanskrit Coll., Kovvur and Head of Sanskrit Deptt. in Govt. Colleges (1932-66); Congress Detenu, 1943. *Publications*: *Vedic Women; Women in the Smritis; Hinduism; Introduction to Bhagavat Gita; Bharatiya Vaibhava; Dharma Manjari; Jagadguru Prasamsa; Chitra Sataka*. *Address*: Marla Lane, Kakinada.

PUTTASAMAYA, B., Sahitya Akademi Award (1964), Kannada Writer. *b.* May 27, 1897; *Educ.*: St. Joseph's Coll., Bangalore. Took up journalism at an early age; worked as leader writer and gen. editor of various Kannada dailies and weeklies, *Janavani, Mathru Bhoomi, Prajamatha*; Founder-Editor, *Prajavani*, 1948. *Publications*: *Plays: Kurukshetra; Dasavathara; Ramayan; Buddha*; etc.; *Novels: social: Abhisarika; Sushamayi; Ardhangi*, etc., *Kranthi Kalyan* won the Sahitya Akademi Award for the last part of the book published in 1963; *Druva Swamini, Chahakattida Samrajya; Bichugathi, Babravahana* (Plays); *Prabhu Deva, Deva Suparna* (novels). *Address*: 1st Cross, Sreeramapuram, Bangalore 21.

PUVVADA, Seshagiri Rao, 'Kavipadusha', poet, scholar and writer of Andhra. *b.* in Movva, 1906. An educationist; also a broadcaster; participated in the Nat. Symposium of Poets inaugurated by President Rajendra Prasad, 1958; member, Adv. Panel, Anglo-Intra Indian Multi-Lingual Dictionary; Dir., Dramatic Assoc. *Publications*: *Kavyas, novels, plays and essays, Satapatram; Govatsam; Taj Mahal; Dara; Palavelli; Andhra Tejam; Parasuramudu; Durga Das; Prithvi Putri; Pratapa Rudrama Devi; Prana Rakshana; Sahapankti; Silpakavyam; Nandanar; Laksmi Swayamvaram*, etc.; *Ballad: Raktatarpanam*. *Address*: Professor of Telugu, National College, Masulipatam.

QURESHI, Mohd. Shafi, M.A., LL.B., Deputy Minister for Steel & Heavy Engineering, Govt. of India, since Feb. 1969. *b.* Nov. 24, 1929; *Educ.*: Christian Mission Society, Hadow Memorial High School, Dr. Amar Singh Coll. (Srinagar), M.A. & LL.B., from Aligarh Univ. Was advocate in Srinagar; elected to: the Rajya Sabha, May 1965; Lok Sabha, 1967; formed the Congress in Kashmir and became founder Pres., Jammu & Kashmir National Congress; Dy. Min. of Commerce, Govt. of India, 1966-69. *Address*: 13, Ashoka Road, New Delhi; Badshah Chowk, Maisuma Bazar, Srinagar (Kashmir).

RACHAIAH, Basavaiah, B.Sc., B.L., Min. for Agriculture, Mysore, since May 29, 1968. *b.* Aug. 10, 1922; *Educ.*: Central Coll. and Govt. Law Coll., Bangalore. Member, Mysore Leg. Assembly from Chamarajanagar, 1952 and Santhemorahalli in '57 and '62; Pres., Mysore State Bharatiya Depressed Class League: founded educ. Instts. and harijan hostels; toured Japan for 3 wks. and led Indian delegation to World Sericultural Cfee. at Beirut, 1965; Minister for Forests, Fisheries and Sericulture, Mysore, 1962-67 and Revenue & Forests, 1967-68. *Address*: Vidhana Soudha, Bangalore 1.

RADHAKRISHNAN, Dr. S., O.M. F.R.S.L. M.A., D.Litt. (Hon.), LL.D., D.C.L., Litt. D., F.B.A., Bharat Ratna (1954), German pour la merite (1955), Master of Wisdom (Mongolia) (1957), Goethe Plaque (1959), Hon. D.Ph., Teheran Univ. (1963); Hon. Doctor of Laws, Pennsylvania Univ. (1963); Hon. D. Litt., Tribhuvan Univ. (1963); Hon. Ph.D., Moscow Univ. (1964), Hon. Doctor of Laws, National Univ. of Ireland (1964); The Golden Spur (1964); Hon. Doctorate, Zagreb Univ. (1965); Hon. Doctorate, Haile Selassie I Univ. (1965), Hon. Doctor of Letters (B.H.U.) (1967), Ex-President, Indian Republic; Philosopher Statesman. *b.* 5th Sept. 1888; *Educ.*: Madras Christian College. For some time Prof. of Philosophy, Presy. Coll., Madras and in Mysore Univ.; Upton Lecturer in Comparative Religion, Manchester Coll., Oxford; Hibbert Lecturer, 1929-30; Vice-Chancellor, Banaras Hindu Univ., 1939-48; Spalding Prof. of Eastern Religion and Ethics, Oxford, 1936-52; George V Prof. of Philosophy, Calcutta, 1921-39; member, Intn'l Cttee. on Intellectual Co-op., 1931-39; member and leader, Indian Delegation, UNESCO, 1946, 1947, 1948, 1949, 1950; Pres., 1952; elected Chairman of the Exec. Board, UNESCO, 1948; Chairman, Univ. Commn., Govt. of India, 1948; Indian Amb. Extraordinary and Min. Plenipotentiary to Soviet Russia, 1949-52; Chancellor, Delhi Univ., 1953-1962; Chairman, Indian P.E.N.; Vice-Pres., Intn'l P.E.N. Elected Vice-Pres., Indian Republic, 1952 and again 1957, went on a two-month goodwill tour of European countries namely Belgium, Poland, Czechoslovakia, the Soviet Union, Hungary and Bulgaria, and African countries namely East and Central Africa, June-July 1956; received the Hony. Professorship of Moscow Univ., June 18, 1956; visited Singapore, Indonesia, Japan and China on a goodwill tour, Sept.-Oct. 1956; went on a three-week tour of the Indo-China States, China, Mongolia and Hong-Kong, Sept. 1957. Attended East-West Philosophers' Cfee. in Honolulu, visited U.S.A., attended the P.E.N. Congress in Germany, July 1959; went on a goodwill tour of England and Scandinavia, Jan.-Feb. 1960; attended the UNESCO Cfee. at Paris, Nov. 1960; visited also the U.S.A.; acted as President of India, June-July 1960 and Aug.-Sept. 1961; elected Hon. Fellow of the British Academy, July 11, 1962; State visit to: U.S.A., June 5-12, 1963; Great Britain, June 12-23, 1963: apptd. by Queen Elizabeth as an Hon. Member of the Order of Merit, Buckingham Palace, on June 12, 1963: State visit to Nepal, Nov. 4 to 7, 1963; State visit to U.S.S.R. & Ireland, Sept. 1964; awarded by H. H. Pope Paul VI, the Golden Spur, the highest Vatican

award, during his visit to Bombay, Dec. 4, 1964; State visit to Yugoslavia, Sept. 30 to Oct. 4, 1965; Czechoslovakia, Oct. 4-7, 1965; Rumania, Oct. 7-10, 1965; Ethiopia, Oct. 10-13, 1965; President, Indian Republic, 1962-67. *Publications*: *Philosophy of Rabindranath Tagore, Reign of Religion in Contemporary Philosophy, Indian Philosophy 2 Vols., The Hindu View of Life, An Idealist View of Life, East and West in Religion, Kalki or the Future of Civilisation, The Religion We Need, Gautama the Buddha, Eastern Religions and Western Thought, India and China, Religion and Society, Education, Politics and War, Bhagavadgita, Dhammapada, The Principal Recovery of Faith, East and West, Some Reflections, Brahma Sutra, Fellowship of the Spirit: On Nehru*, 1965; *Speeches & Writings*, 1965; *Religion in a Changing World*, 1967. Articles on Indian Philosophy and others in *Encyclopaedia Britannica*. Address: "Girija", 30, Edward Elliot Road, Madras 4.

RAGHAVACHARI, Neman Echambadi Srinivasa, M.A., I.C.S. Chairman, Damodar Valley Corpn. b. June 10, 1912; Venkatagiri Rajah's Coll., Nellore and Presidency Coll., Madras; passed I.C.S., 1935. Served the Madras Govt. in various capacities till he became Jt. Provincial Textile Cmmr., Madras, 1945-47; Agent of Govt. of India in Ceylon, Kandy, 1947-48; First Secy. to the Indian High Commr., Ceylon, 1948-51; Rep., U.N. Tech. Assistance Adm. for Asia and Far East, Bangkok, 1951-53; Collector of Malabar, 1953-54; Dir. of Community Devpt., Madras, 1954-56, Chief Secy. to Govt. of Kerala, 1956-60; Dir.-Genl., Supplies & Disposals, Govt. of India, 1960-63, Addl. Secy., Min. of Comm. Devpt. & Co-op., 1963-65; Advisor to Governor of Kerala, 1965-67. Address: Anderson House, Calcutta 27.

RAGHAVAN, Dr. Venkatarama, Padma Bhushan (1962), M.A., Ph.D. Member L'Ecole Francaise d'Extreme Orient Hanoi (1948), Austrian Academy of Sciences, 1958 and Noble Order of St. Martin, Austria 1967; Kane Gold Medal, Bombay Asiatic Soc. 1953, Kavi-Kokila 1954, Fellow, Sangeet Natak Akademi, 1964, Sahitya Akademi Prize Winner, 1967; J. Nehru Fellow, since 1969; Sanskrit Scholar; Prof. and Head of the Dept. of Sanskrit, Univ. of Madras. b. Aug. 22, 1908; *Educ.* Tiruvarur; Presidency Coll. Madras. Research Scholar, Madras Univ. 1931-34; Sanskrit Dept., Madras Univ. in diverse capacities 1935-63; visited Europe U.S.S.R., U.S.A., Japan and S.E. Asia on a lecture tour. *Publications*: Over 30: *New Catalogus Catalogorum; Bhoja's Srngara Prakasa* (Sahitya Akademi Prize Book); *Number of Rasas, Concepts of Alankara Sastra; Srngaramanjari, Love in the Poems and Plays of Kalidasa; Sanskrit & Allied Indological Studies in Europe; The Indian Heritage; Great Integrators — Saint-Singers of India*; etc. etc. Address: Professor of Sanskrit Univ. of Madras, Madras 5; 7, Srikrishnapuram St., Madras 14.

RAGHU RAMAIAH, Kotha, M.A., LL.B., Bar-at-Law, Minister of State for Parliamentary Affairs, Shipping & Transport, Govt. of India, since Feb. 14, 1969. b. Aug. 6, 1912; *Educ.*: Andhra Christian Coll., Guntur; Lucknow Univ.; Middle Temple, London. Practised in Madras High Court, 1937-41; held various posts in the Tamil Nadu Govt. and Govt. of India; enrolled as Advocate, Supreme Court; member: Estimates Cttee., Lok Sabha, 1954; Exec. Cttee., Congress Party in Parliament, 1954; Indian Instt. of Public Adm., 1954; Indian Central Tobacco Cttee., since 1953; in Lok Sabha in various Cttees.; Secy., Congress Party in Parliament, 1955; Dy. Min. for Defence, 1957-62; Min. of State in the Defence Min., April-Nov. 1962; Minister of Defence Production, 1962-64; Union Min. for Supply, Tech. Devpt. & Materials Plng., 1964-66; Min. of State in the Min. of Supply & Tech. Dev., Govt. of India,

1966-67; Min. of State in Min. of Petroleum & Chemicals, 1967-69. Address: 14, Asoka Road, New Delhi.

RAGHUBIR SINH, Maharaj Kumar Dr., M.A., D.Litt., LL.B., Hindi writer & Historian. b. Feb. 23, 1908; *Educ.*: At home and the Holkar Coll., Indore; Agra Univ. Participated in the Chamber of Princes affairs; brought about the formation of the Madhya Bharat Union, 1948; M.P. (Rajya Sabha), 1952-62; awarded the Mangala Prasad Prize, 1945, for his Hindi book *Malwa Men Yugantar*; Corresponding member, Ind. Hist. Rec. Comm. 1937-42 and since 1952. *Publications*: (Hindi) *Purva-Madhya-kalin Bharat, Bikhare Phool, Sapta Deep, Malwa Men Yugantar, Shesha Smritiyan, Jeevan Dhuli, Jeevan Kan, Ratlam ka Pratham Rajya*; (English) *Malwa in Transition, Indian States and the New Regime*. Address: "Raghubir Niwas", Sitamau (Malwa-M.P.).

RAHMAN, Habib, B.E. (Cal.), M. Arch. (M.I.T.), Padma Shri (1955), Senior Architect to the Govt. of India, since 1953. b. March 1916; *Educ.*: Calcutta Univ. and M.I.T. (U.S.A.). Worked in leading Architectural Firms of Boston and New York, 1944-46; Senior Architect, West Bengal Govt., 1947-53; member, Lalitkala Akadami, 1956; Fellow of Indian Instt. of Architects, 1957; designed and constructed over 100 buildings all over India, imp. among them being West Bengal's 13 storeyed Secretariat, Gandhi Ghat, Calcutta, W.H.O. Bldg., New Delhi, Rabindra Bhawan (National Akademies), New Delhi, Maulana Azad's Tomb, etc. Address: 6/3, M. S. Shah Jahan Road, New Delhi 11.

RAI, Amrit, M.A., Sahitya Akademi Award (1963), Hindi Writer. b. Aug. 15, 1921; *Educ.*: Lucknow, Banaras and Allahabad. Edited the Hindi Magazine, *Hans*, 1942-52; a Marxist; was in political detention, 1950. *Publications*: Novels: *Beej; Nagphani Ka Desh; Hath Ke Dant*; Story Collections: *Itihas; Qasbi Ka Ek Din; Kathgharey; Bhor se Pahle; Gili Mitti; Chitrphalak; Lal Dharti; Jeevan Ke Pahlu*; Literary Criticism: *Nayee Sameeksha*; Biography: *Premchand — Qalam Ka Sipahi* (Won the Sahitya Akademi Award for best original work in Hindi, 1963); has translated extensively from English, Urdu and Bengali; for his translation of Howard Fast's *Spartacus* called *Adividrohi*, won the Govt. of India's best translation Award, 1958; Translation of *Hamlet; Ramyaa*, collection of light essays; *Sahchintan*, a book of creative criticism. Address: 18, Hastings Road, Allahabad.

RAI, Deo Prakash, Minister for Scheduled Castes & Tribes Welfare, West Bengal, since Feb. 1969. b. 1930 at Darjeeling; *Educ.*: Darjeeling & Singapore. Gen. Secy., All India Gorkha League; Pres. or Secy. of many trade unions; is a Nepali writer; served the Indian Army for three years during World War II; was arrested and deported from Malay in 1950 for political reasons; Minister, first U.F. Govt., W. Bengal, 1967. Address: Writers Building, Calcutta 1.

RAJABHOJ, Pandurang Nathuji, J.P., Journalist and Agriculturist. b. March 15, 1905; *Educ.*: Poona, Member, I. N. Congress, 1930-36; Secy., All-India Depressed Classes League, 1935-37; Rep. of the depressed classes on the Franchise Cttee. of the Simon Comm.; often imprisoned during Satyagraha movement of Scheduled Castes in Poona, Bombay, M.P., U.P., Nasik, Jabalpur, etc.; Gen. Secy., A.I.S.C.F., 1942-54; attended the first two World Buddhist Cfses.; Pres.: Indian Buddhist Soc.; widely travelled; has now rejoined the Congress; member, A.I.C.C., since 1961; Lok Sabha, 1952-57; Rajya Sabha, 1957-62. *Publications*: *Lashkari Pesh* (Marathi); pamphlets in Marathi on Buddhism; translation of Dr. Ambedkar's books. Address: 207, Ghorpade Peth, Poona 2.

RAJADHYAKSHA, Mangesh Vithal, M.A., J.P., Writer; Prof., Elph. Coll., Bombay. *b.* June 7, 1913; *Educ.*: Elphinstone Coll., Bombay. Taught English at the following Govt. colleges: Gujarat Coll., Ahmedabad; Rajaram Coll., Kolhapur and Ismail Yusuf Coll., Bombay, since 1936; Member: National Book Trust, India; Adv., Board for Marathi, Sahitya Akademi, New Delhi; Govt. of India Panel of Advisors on the Import of Pornographic Literature; Film Advisory Board; Adv. Bd., Commercial Broadcasting Service. *Publications*: *Panch Kavi* (1946); *Akash Bhashite* (1963); *Khardeghashi* (1963). *Address*: 7, Jairaj House, 141, Colaba Road, Bombay 5.

RAJADHYKSHA, Vasant Ganpat, B.Sc., B.Sc. (Tech.), M.Sc. (Engg.), Chairman, Hindustan Lever Ltd., since June 1968. *b.* Jan. 19, 1924; *Educ.*: India and U.S.A. ICI Dyestuffs, Manchester (1947-48); Unilever Ltd., London (1948-49); joined Lever Brothers (India) Ltd. 1949; Factory Manager: Shamnagar (1953-58); Garden Reach (1958-62); General Factory Manager, Bombay Factory (1962-64); Senior Technical Officer (1964-65); Development Director (1965-66); Technical Director (1966-68); Vice-Chairman (May 1968); Chairman: Devpt. Council for Organic Chemical Industries; Vanaspati Manufacturers' Assoc. of India; Member: General Cttee., Bombay Chamber of Commerce & Industry; Board of Governors, Administrative Staff Coll. of India, Hyderabad; Deputy Chairman, Audit Bureau of Circulations Ltd.; Pres., Bombay Branch, Operational Research Society of India. *Address*: E/5, Mafatlal Park, Bhulabhai Desai Road, Bombay-26.

RAJAGOPALACHARIAR, C., B.A., B.L., Bharat Ratna (1954), Leader, Swatantra Party. *b.* 1878 in Salem Dist.; *Educ.*: Central Coll., Bangalore; Presidency Coll. and Law Coll., Madras. Joined Bar in 1900; joined Satyagraha campaign, 1919 and Freedom Movement in 1920; edited Mahatma Gandhi's *Young India* during the latter's imprisonment; Gen. Secy., Ind. Nat. Congress, 1921-22; member, Working Cttee. of Congress, 1922-42 and 1946-47; imprisoned on five occasions in Congress campaigns; Vice-Pres., Dakshin Bharat Hindi Prachar Sabha; Prime Min., Madras 1937-39; resigned with other Congress Ministers, Oct. 1939; resigned in April 1942 from Congress on account of difference of opinion; assisted Mahatma Gandhi in the Gandhi-Jinnah talks in Sept. 1944; member, Governor-General's Council, 1946-47; Governor of West Bengal, Aug. 1947; acted as Governor-General of India, Nov. 1947; Governor-General of India, June 1948-Jan. 26, 1950; Min., Govt. of India, without portfolio, May-Dec. 1950 and Home Affairs, Jan.-Nov. 1951; Chief Min., Madras, 1952-54; as Spokesman, Threeman Indian delegation from the Gandhi Peace Foundation to canvass support for the prohibition of nuclear tests, visited America, England and Rome, Oct. 1962. *Publications*: Tamil books on Socrates, Marcus Aurelius, Bhagavad-Gita, Mahabharata, Ramayana and Upanishads; *Fables and Short Stories*; (in English) Mahabharata, Ramayana, Bhagavad-Gita, Upanishads, *Voice of The Uninvolved*, *Kambaramayanam-Ayodhya Kadam* (a UNESCO publication); principal contributor, *Svarajya* Weekly; and *Hinduism Doctrine and Way of Life*. *Address*: Naoraji Road, Madras 10.

RAJAGOPALAN, Ramanatha, A.M.I.M.E. (Lond.), A.M.I. Loco. E., General Manager, Integral Coach Factory, Madras, since 1968. *b.* March 21, 1913; *Educ.*: Tiruchirappalli. Joined the Indian Railways, 1931; held important position in Mechanical Engg. & Transp. (Power) Deptt., Indian State Railways; was in charge of planning of the Furnishing Annexe, Integral Coach Factory and Wagon Design and Mechanical Directorate Research,

Design & Standards Organisation; Director, Mechanical Engg. & Wagon Production & Steel Procurement, Min. of Rlys., 1965-68; Chief Mechanical Engineer, Integral Coach Factory, 1965-68. *Address*: General Manager, Integral Coach Factory, Madras 38.

RAJAN, V. N., Flute Vidwan. *b.* 1919 at Palladam; *Educ.*: Learned music under his father and other flute vidwans. Gave his first performance at the age of 14; gave several concerts and earned a name for himself; awarded the title of "VENUGANA KESARI"; was presented a golden shawl by His Holiness Sri Sankaracharya of Kanyakot Peetam; has widely travelled and given performances at Bombay, Delhi, Simla and other imp. cities. *Address*: Agraharam, Palladam.

RAJGURU, Pandit Basavaraj, Ganakokila, 1938, Sangeet Sudhakar, 1941, Sangeet Ratna, 1947, Musician. *b.* Aug. 24, 1920, at Dharwar; *Educ.*: Took his lessons in music from his father and later from experts. Has recorded many popular songs; has participated in many music cfees.; broadcasts frequently from almost all stations of the A.I.R.; is one of the sponsors of the World Congress for General Disarmament and Peace; is member, Sangeet Natak Akademi, Mysore State; Chairman, Board of Examiners for Hindustani Music, Mysore State. *Publications*: *Sangit Tarangini* (under print). *Address*: Rajguru Building, Mala nad ti, Dharwar.

RAJNARAIN, B.A., LL.B., M.P., Social Worker. *b.* 1917; *Educ.*: Middle School, Gangapur, Harischandra Coll., Banaras Hindu Univ., Varanasi. Was leader of the opposition in the U.P. Assmly, 1952-55 and Chairman, Socialist Party of India; member: National Exec., P.S.P., till 1955; National Cttee., S.S.P., since its formation; was Gen. Secy., S.S.P.; M.P., Rajya Sabha, since 1966; Convenor, Vigilance Cttee. to supervise the working of the ministries of the party in the non-Congress ministries in various states; visited Iran and Kabul in Aug. & Sept. 1967 as a member of a Parliamentary delegation. *Address*: Leela Niwas, Pandaiba, Lucknow.

RAKESH, Mohan, M.A. (Skt. and Hindi), M.O.L., Sangeet Natak Akademi Award (1959), Playwright, novelist, an initiator of new short story movement in Hindi. *b.* Jan. 8, 1925; *Educ.*: Hindu Coll., Amritsar; Oriental Coll., Lahore. Teacher, Elphinstone Coll., Bombay, Bishop Cotton School, Simla and D.A.V. Coll., Jullundur, 1947-57; Editor, *Sarika*, a Times of India Publication, 1962-63; has travelled widely in India. *Publications*: *Andherey Band Kamrey*; *Na Aane Wala Kae*; *Akhiri Chatan Tak* (a travelogue); *Ashadh Ka Ek Din*, *Lehron Ke Rajhans*; *Aadhe Adhure*; collections of short stories and a number of edited and translated books, critical essays. *Address*: R. 522, New Rajendra Nagar, New Delhi 5.

RAM, Dr. Bharat, Chairman, Board of Directors & Director, Mg. Agents, Delhi Cloth & General Mills Co., Ltd.; Pres., International Chamber of Commerce, 1969-71. *b.* Oct. 5, 1914; *Educ.*: St. Stephen's Coll., Delhi. Chairman, Board of Directors: Coromandel Fertilisers Ltd.; Shriram Bearings Ltd.; Bengal Potteries Ltd.; DCM International Ltd.; Dir.: Escorts Ltd.; Bajaj Electricals Ltd.; East India Hotels Ltd.; New India Assurance Co., Ltd., etc.; Member: National Commission on Labour; Cotton Textile Fund Committee; All India Council for Technical Education; Exports Promotion Advisory Council; Council of Inventions Promotion Board; Export Import Advisory Council; Educ. Panel of the Plng. Commission; Indian National Cttee. of ICC; Cttee. of All India Organisation of Industrial Employers & C. and several

other bodies; Leader, Indian Businessmen's Goodwill Mission to Africa, 1965; Member: Goodwill Trade Mission sponsored by FICCI; Cotton Textile Wage Board, 1957-59; Hony. degree of Doctor of Laws by Aligarh University, Jan. 1964; ex-Chairman, I.A.C. *Address*: 25, Sardar Patel Road, New Delhi.

RAM, Charat, Industrialist. *b.* Jan. 1, 1918; *Educ.*: St. Stephen's Coll., Delhi. Chairman: Jay Engg. Works Ltd.; India Hard Metals Pvt. Ltd.; India Capacitors Pvt., Ltd.; Shriram Refrigeration Industries Ltd.; Vice-Pres., All India Management Assoc.; Mg. Dir., Mg. Agents: the Delhi Cloth & General Mills Co. Ltd.; Dir.: Reserve Bank (Northern Board); Industrial Fin. Corp'n. of India; Amar Dye Chem. Ltd.; Fertilizer Assoc. of India; Natl. Industrial Devpt. Corp'n. of India; Shri Ram Associates P. Ltd. *Address*: 26, Sardar Patel Road, New Delhi-11.

RAM, Jagjvan, Minister for Food and Agriculture, Govt. of India, since March 13, 1967. *b.* April 1908 at Arrah in Bihar; *Educ.*: Banaras Hindu Univ.; Calcutta Univ. Pres., All India Depressed Classes League, 1936-46; member, A. I. C. C., since 1940; jailed in the freedom movement; Secy., Bihar P.C.C., 1940-46; appeared before the Cabinet Mission as the accredited leader of the Scheduled Castes, 1946; elected Chairman, Preparatory Asia Regional Cfee., I.L.O. held in New Delhi, Oct.-Nov. 1947; member, Congress Working Cttee. & A.I.C.C. since 1948; leader, Indian Delegation to 33rd Session of I.L.O. Cfee., June 1950 and unanimously elected Chairman of the Cfee.; member: Central Parly. Board, A.I.C.C., since 1950; Central Election Cttee., 1951; Congress Eco. Plang. Cttee. since 1950; was Pres. of several trade unions; Labour Min., Govt. of India, 1946-52; Union Communications Min., 1952-56; was responsible for the nationalisation of air transport in India; Min. for: Transport & Rlys., 1956-57; Rlys., 1957-62; Transport & Communications, 1962-63; resigned under the "Kamaraj Plan," Aug. 1963; Min. for Labour, Employment & Rehab., 1966-67; Leader, Indian Delegation to the Asian Labour Ministers' Cfee., Manila, Nov. 1966. *Address*: 6, Hastings Road, New Delhi.

RAM NARAYAN, Pandit, a leading Sarangi player. *b.* 1928 in Udaipur. Took to music early in life; was trained in vocal music as well as in sarangi by eminent music teachers; staff artiste with the A.I.R., Lahore, and Delhi; has accompanied on the sarangi almost all the leading musicians of the day; raised sarangi to full length solo concert status and has been playing solo since 1960; has travelled extensively in several Asian and European countries giving performances; was member, Indian Cultural delegation to Asian countries; also composed the background music for a film; toured all over the world, 1968. *Address*: 20, Sujata, Swami Vivekananda Road, Bandra, Bombay 50-A.S.

RAMACHANDRAN, Deivanayagam, Minister for Public Works, Pondicherry, since April 1969. *b.* Jan. 31, 1934; *Educ.*: St. Joseph High School, Cuddalore; Loyola Coll., Madras. Pres., Pondicherry Co-op. Processing Supply and Marketing Society; represented Pondicherry in the Agricultural confce. at New Delhi, 1966 and the Central State Sugarcane Cttee. at Bangalore, 1965. *Address*: Reddiar Street, Maducarai P.O. (Via Mokshakulam), Pondicherry.

RAMAKRISHNAN, Chittur Anantakrishna, M.A. (Madras), B.Sc. (Hons.) (Lond.), I.C.S., Chief Secretary, Tamil Nadu, since Nov. 1965. *b.* Nov. 9, 1910; *Educ.*: P. S. High School, Madras; Presidency Coll., Madras; Univ. Coll., London and Trinity Coll., Dublin. Joined

I.C.S., 1933; after serving Madras for nine years became Director-General of Food, Mins. of Food and Agriculture, Govt. of India, 1955-60; led Indian delegation to the International Wheat Confce., Geneva, 1956; leader, Wheat Mission to U.S.A., 1958 and Rice Purchase Mission, Burma, 1959; is Regional Grand Master of Southern India; Grand Lodge of India; is a Rotarian. *Publications*: Part author of the *Report of the Dist. Revenue Inquiry Cttee.*, 1954; *Principles of Ryotwari Settlement* (1950). *Address*: 25, 1st Main Road, Gandhinagar, Adyar, Madras 20.

RAMAMURTI, P., M.P., Member, Polit Bureau, C.P.I.(M.). *b.* Sept. 20, 1909; *Educ.*: Banaras Univ. and Presidency Coll., Madras. Courtied Jail in 1930-32 Congress Movement; political worker, ever since; was in the executive of the Tamilnad Congress Socialist Party, 1935-39; member, A.I.C.C. for about 4 years; Working Cttee. member, A.I.T.U.C.; a top ranking Trade Union leader in Tamil Nadu; is an orator; went to I.L.O. Conference, 1946. *Publications*: *Kandal Deepavati* (on cloth famine, in Tamil Nadu); *Open Letter to Kumarasami Raja*. *Address*: Mandian Asari Lane, Town Hall Road, Madurai (Tamil Nadu).

RAMAN, Sir Chandrasekhara Venkata, Kt., M.A., Hon. Ph.D. (Freiburg), Hon. LL.D. (Glasgow), Hon. D.Sc. (Paris), and Bordeaux, Nobel Prize for Physics (1930); Franklin Medallist of the Franklin Instt., Philadelphia; Int. Lenin Prize for 1957; Foreign member, Soviet Academy of Sc.s (1957); Foreign Associate, Paris Academy of Sc.s (1949); Pontifical Academician (1961), Hon. Fellow, Royal Society of New Zealand. *b.* Nov. 7, 1888; *Educ.*: A.V.N. Coll., Vishakapatnam & Presidency Coll., Madras. Officer, Indian Fin. Dept., 1907-17; British Assoc. Lecturer (Toronto), 1924; Research Associate, California Instt. of Tech., 1924; Matteucci Medallist, Rome, 1929; Hughes Medallist of the Royal Society (1930); Hon. Fellow, Zurich Phys. Soc., Hungarian, Czechoslovak and Rumanian Acad., Royal Irish Acad., Chinese Phys. Soc., Royal Phil. Soc., Glasgow, Optical Soc. of America, Franklin Instt, Societe Philomathique (Paris); Pres., Indian Acad., of Sc.s, 1934; National Research Prof. of Physics, 1949. *Publications*: *Molecular Diffraction of Light*; *Music Instruments*; *The Physiology of Vision*; and many scientific papers in Indian, British and American Journals. *Address*: C/o Raman Research Institute, Hebbal, Bangalore-6.

RAMAN, O. P., B.A., B.L., Minister for Electricity, Govt. of Tamil Nadu, since Feb. 1969. *b.* July 22, 1936; *Educ.*: St. Mary's, High School, Dindigul; American Coll., Madurai Law Coll., Madras. Took keen interest in the activities of D.M.K. even while at School; elected to the State Assembly from the Melur South Constituency, 1967. *Address*: No. 20A, Boag Road, Theagaraya Nagar, Madras-17.

RAMANATHAN, Kalpathi Ramakrishna, M.A., D.Sc., F.N.I., Padma Bhushan (1965), Scientist, Prof., Physical Research Laboratory, Ahmedabad; Chairman, National Cttee. for the International Hydrological Decade, since 1965. *b.* 1893; *Educ.*: Victoria Coll., Palghat; Presidency Coll., Madras. Hon. Dir., Trivandrum Observatory; Supdtg. Meteorologist & Dy. Dir-Gen. of Observatories, 1939-48; Pres., Indian Sc. Congress, Mathematics and Physics Section, Lahore, 1939; Pres.: Intn'l. Assoc. of Meteorology, 1951-54; Intn'l. Union of Geodesy and Geophysics, 1954-57; Chairman, Geophysics Research Board; Pres., Intn'l. Ozone Commn., 1959; Hony. Fellow, Royal Met. Soc., Lond., 1960; awarded Int. Met. Org. Prize and Medal, 1960; Main fields of research:

Problems of molecular scattering of light in fluids. *Publications*: Contributions to Indian and foreign scientific journals. *Address*: Physical Research Laboratory, Navrangpura, Ahmedabad 9.

RAMANNA, Dr. Raja, B.Sc. (Hons.), Ph.D., Padma Shri (1968), Shanti Swarup Bhatnagar Memorial Award for Physical Science (1963), Prof., Tata Instt. of Fundamental Research and Dir., Physics Group, Bhabha Atomic Research Centre, Bombay, since 1953. *b.* 1925, at Bangalore; *Educ.*: Bishop Cotton School, Bangalore; Madras Christian Coll., Madras. Collaborated in the design of the Apsara reactor; now in charge of the utilisation of the three reactors at Trombay for research in nuclear physics and solid state physics; Pres., Physics Section, Golden Jubilee Session of the Indian Science Congress; attended many Intl. Cfee.s and was Chairman of many of the sessions; is Chairman: I.P.A. Project (Neutron Spectrometry); Mg. Cttee., Jt. Project "NORA" between Norway and the Int. Atomic Energy Agency. *Publications*: Many papers on neutron thermalisation, nuclear reactions and fission physics. *Address*: Bhabha Atomic Research Centre, Bombay 74.

RAMANUJACHARI, R., M.A., Vidyaratna and Tatvasastraratna, Prof., Centre for Advanced Study of Philosophy, Univ. of Madras; formerly Dean, Faculty of Philosophy and Educ., Annamalai Univ. *b.* Dec. 6, 1902; *Educ.*: Presidency Coll., Madras. Univ. rep. at the 8th Quinquennial Session of the Congress of Univs. of the British Commonwealth at Montreal, and visited Univs. and cultural instts. in U.S.A. and the U.K. *Publications*: Critical editions of Indian philosophical classics with English translations, such as *Nyayakulisa*, *Nitimala*, *Siddhitraya* and *Bhavanopanishad*; publications in Tamil on psychology, such as *Educational Psychology*, *The Children We Teach* and *Learning and Teaching*; *Plato's Republic*; *Life and Teachings of Guru Govind Singh*. *Address*: Centre for Advanced Study of Philosophy, Univ. of Madras, Madras 5.

RAMANUJAM, G., Secy., INTUC and Pres., Tamilnad Prov. Nat. Trade Union Congress; member, National Labour Commission. *b.* Feb. 2, 1916; *Educ.*: Srirangam, Trichinopoly Dist. Founder Secy., Tamil Nad I.N.T.U.C., 1947-58; Pres., I.N.T.U.C., 1958 and 1959; Pres., Indian Nat. Plantation Workers' Federation, 1960; Gen. Secy., I.N.T.U.C., 1965; is a member of several Cttees. connected with labour; member of; 1st and 2nd Central Wage Board for the Cotton Textile Indus. in India; Central Wage Board for Tea Plantation Industry in India; Central Adv. Council for Industries; Workers' rep. at the 42nd Session of the I.L.O., 1958 and the British T.U.C. Cfee., Blackpool and the Constitutional Convention of the AFL-CIO in San Francisco, 1959; visited: China, 1954; Japan, 1959; Dir.: Hindustan Machine Tools, Bangalore; Neyveli Lignite Corpn.; Hindustan Shipyard, Vizag, etc. *Publications*: *Industrial Relations—A Point of View* (1965); *Payment of Bonus Act* (1966); *From the Babul Tree—Story of Indian Labour* (1967). *Address*: 2/44, Royapettah High Road, Madras-14.

RAMA RAU, Smt. Dhanvanthi, M.A. (Hons.) (Madras), Padma Bhushan (1959), Kaiser-I-Hind Gold Medal, 1938, Lasker award of America, 1955; Wattumal Award, 1967; Peace Award of the Society of the Family of Man, 1968; Social Worker; Pres., Intl. Planned Parenthood Federation; Ex-Pres., Family Plng. Assocn. of India. *b.* May 10, 1893; *Educ.*: Hubli; Presidency Coll., Madras. Has been interested in questions relating to women's suffrage and women's rights for over 45 years; Pres., All India Women's Cfee., 1946; member: Family Plng. Board, Govt. of India; ex-member, Central Social

Welfare Board; Exec. Chairman, Cttee. of the Intl. Planned Parenthood Federation. *Address*: 10-D, Mafatlal Park, Bombay 26.

RAMASSAMY, Subramanniya, B.Sc., B.L., Minister for Home, Pondicherry, since April 1969. *b.* June 5, 1939; *Educ.*: St. Mary's High School, Karikal; Annamalai Univ., Chidambaram; Law Coll. Madras. Secy., Student D.M.K., Annamalai Univ., and Law Coll., Madras; participated in the Anti-price-Rise demonstration of Tanjore, 1966; contested in 1964 election to Pondicherry Assembly from Neravy; elected M.L.A., March 1969. *Address*: 8, Veerasamy Naicker St., Karikal (Pondicherry).

RAMASWAMY, K. S., B.A., B.L., Deputy Minister of Home Affairs, Govt. of India, since March 18, 1967. *b.* Jan. 1922; *Educ.*: Loyola Coll., Madras; National Coll., Tiruchirappalli; Law Coll., Madras. Was Member: Second Lok Sabha, 1957-62; Estimates Cttee., 1961-62; Delhi Zoological Park Council and Indian Central Sugarcane Cttee., 1960-62; Secretary, Cong. Party in Parliament, 1966-67; elected to Rajya Sabha from Madras, since 1962; keen Agriculturist and promoter of Small Industries; went on study tours to Russia, U.K. and the Continent. *Address*: Kugalur, Gopichettipalayam Taluk, Via Erode, Tamil Nadu; Ministry of Home Affairs, Govt. of India, New Delhi.

RAMDAS, Dr. Lakshminarayanapuram Ananthakrishna, M.A., Ph.D., M.B.E. (1946), "Padma Shri" (1958), F.N.I., F.N.A.Sc., F.A.Sc., F.W.A., F.R. Met., F.I.G.U., Scientist. *b.* June 3, 1900; *Educ.*: Sircar High School, Trichur; Maharajah's Coll., Ernakulam; Presidency Coll., Madras; Univ. Coll. of Sc., Calcutta; Indian Assoc. for the Cultivation of Sc., Calcutta. Palit Research Scholar under Sir C. V. Raman, 1923-26; discovered phenomenon of "Scattering of Light by pure liquid and solid surfaces", 1923; recorded "Raman Effect" for the first time in a Vapour (Ether), 1928; Ind. Met. Service, 1926-56; Dy. D. G. of Observatories, 1953; Offg. Dir.-Gen., 1955; Pres., Physics Sect., India Sc. Congress, 1948; led Indian Delegation to 9th Cong. of IUGG (Brussels), 1951; participated in UNESCO's various Arid Zone Research Cttee. Sessions, 1954-64; visited U.S.A., as a visiting foreign scientist, 1960; attended Intl. Radiation Symposium, Leningrad, 1964 and Bergen, Norway, 1968; Fellow, World Academy of Art and Sc. (FWA), 1963. *Publications*: Numerous original papers in Physics, Meteorology, Atmospheric Physics, etc. in various Indian and foreign Scientific Journals. *Address*: Emeritus Scientist, National Physical Laboratory, New Delhi 12.

RAMPURIA, Ratanlal, Industrialist. *b.* June 20, 1926. Is a partner of Messrs. Hazarimul Heeralal, Calcutta; Dir. of many industrial concerns; Chairman: Board of Dir., The Bank of Bikaner Ltd., 1950 & 1958; Hoare Miller & Co., Ltd.; Dir.: West Bengal Fin. Corpn.; Rampuria Bros. (Private) Ltd.; Nat. Ins. Co., Ltd., etc.; created charity trust and apptd. trustee of various charity trusts; Chairman, Refugee Relief Cttee., Bikaner, 1949; patron, life member and member of various indus., commercial and educ. assoc.s, chambers and societies of India; Pres.: Jain Sabha, 1959-60 & 1960-61; Bengal Millowners' Assoc., 1961. *Address*: 25/2, Rowland Road, Calcutta.

RANGA, Prof. N. G., M.P., Pres., Swatantra Party; Leader, Swatantra Group, Lok Sabha, since 1959; Principal, Indian Peasants Instt., Nidubrolu. *b.* Nov. 7, 1900; *Educ.*: Oxford. Member, Congress Working Cttee., 1947-51; Ex-Pres., A.P.C.C.; Founder, Indian Peasant Movement; toured extensively in Europe and America spreading Gandhian philosophy and ideals; resigned from Congress,

April, 1951; formed the Bharat Krishikar Lok Party, 1951; rejoined Congress, 1955; elected Gen. Secy., Congress Parly. Party; resigned on Co-op. Farming issue, 1959; became leader, Swatantra Party, June 1959; elected M.P. from Srikakulam, 1967. *Publications*: 20 books including *Colonial and Coloured Peoples*, *Outlines of National Revolution*, *Peasants and Communists*, *Towards World Peace*, *Credo of World Peasantry*, *Peasant and Co-operative Farming*, *Panchayat Landlordism Vs. Peasant Economy*, *Autobiography—Fight for Freedom*, etc. *Address*: Nidubrolu (Post).

RANGACHARYA, Adya, B.A. (Bombay), M.A. (Lond.), Sangeet Natak Akademi Award (1963), Playwright. *b.* Sept. 26, 1904; *Educ.*: Deccan Coll., Poona; School of Oriental Studies, London. Sanskrit Lecturer, Bombay Ednl. Service, 1930-48; Drama Producer, A.I.R., Bangalore, 1956-59; Founder and first Pres., Natya Sangha Theatre Centre, Mysore State; Pres., Kannada Sahitya Sammelan, etc. *Publications*: 30 plays, 50 one-acts, on Gita, laughter and theory of humour (Kannada); books on the origin of Sanskrit drama and Bharat Natya Shastra (English); novels and humorous essays, criticisms, reviews, etc.; member, Gen. Council & Exec. Cttee., Central Sangeet Natak Akademi; its elected fellow (1968); Pen-name SHRI-RANGA'. *Address*: 381, 6th Main Road, Malleswaram, Bangalore 3.

RANGANATHAN, Saurirajan, M.A. (Madras), I.C.S. (Retd.), Comptroller and Auditor-General of India, since Aug. 15, 1966. *b.* Nov. 12, 1908; *Educ.*: P. S. High School, and Presidency Coll., Madras; M.A., 1929-I.C.S., (1932); U.P. Cadre; was permanently deputed to the Govt. of India; was Secy., Min. of Industry, Govt. of India. *Address*: New Delhi.

RANGANATHAN, Shiyali Ramamrita, M.A., D.Litt., Delhi & Pittsburgh, L.T., F.L.A., Padma Shri, Educationist. *b.* 1892; *Educ.*: Madras Christian Coll.; Univ. Coll., London. Mathematics Lecturer, Govt. Coll., Madras, 1917-24; Univ. Lib. and Prof. of Lib. Sc., Madras, 1924-44; Banaras, 1945-47; Prof. of Lib. Sc., Delhi Univ., 1947-55; Chairman: Doc. Comm. and Lib. Buildings Comm., Ind. Stand. Inst., 1947-67; U.G.C. Lib. Comm., 1958 and Courses Comm. in Lib. Sc., U.G.C., 1962; is Natl. Res. Prof. in Lib. Sc., 1965—and Hon. Prof., D.R.T.C., Bangalore, since 1962. *Publications*: *Preface to Lib. Science*; *Rural Adult Education*; *Lib. Devpt. Plan for India*; *Rules for the Rendering of South Asian Names* (Prepared for UNESCO); *Lib. Adm.*; *Social Science Research and Libraries*; *Documentation and its Facets*; etc. *Address*: Documentation Research and Training Centre, 112, Cross Road 11, Bangalore 3.

RAO, Ayyagari Sambasiva, M.Sc. (Physics), Degree of Engg. (Stanford Univ.), Padma Shri (1960), Shanti Swarup Bhatnagar Memorial Award in Engg. Sciences (1965), Director, Electronics Group and Directorate of Radiation Protection, Bhabha Atomic Research Centre; Mg. Director, Electronics Corp. of India Ltd. *b.* Sept. 20, 1914; *Educ.*: Banaras Hindu Univ., Stanford Univ., California, U.S.A. Did research for five years on intensity measurements of cosmic rays at high altitudes at the Tata Institute of Fundamental Research, Bombay; supervised and controlled the designing, construction and commissioning of the control systems of the two reactors built at Trombay—*Apsara* and *Zerlina*; Chairman, Working Group on Electronics; member: Board of Tarapur, Rajasthan and Kalpakkam Atomic Power Projects; member on the editorial and advisory boards for scientific and technical journals. *Publications*: Has published 12

papers. *Address*: Director, Electronics Group, Bhabha Atomic Research Centre, Chhatrapati Shivaji Maharaj Marg, Bombay 1.

RAO, Balantrapu Rajanikanta, B.A. (Hons.), Sahitya Akademi Award for Telugu (1961-62), Playwright, Poet, Musician and Musicologist, Asstt. Stn. Dir., Transcription and Programme Exchange Service, A.I.R., New Delhi, since June 1968. *b.* Jan. 29, 1920; *Educ.*: Andhra Univ. Coll., Waltair. Staff-artist and Playwright, A.I.R., Madras, 1942-44; Programme Asstt., A.I.R., Madras, 1944-56; Programme Exec., A.I.R.: Vijayawada, 1956-60; Hyderabad, 1960-66; Asst. Stn. Dir. A.I.R., Kurseong, 1966-68. *Publications*: *Sata Patra Sundari* (Lyrics) (Telugu Bhasha Samiti Award, 1952-53); *Andhra Vaggeyakara Charitram* (Central Sahitya Akademi Award in 1961-62); *Jejimamayya Patalu* (Songs for Children), 1962; *Viswavina* (Collection of 18 operas), 1964. *Address*: Transcription and Programme Exchange, A.I.R., P.B. No. 640, New Delhi.

RAO, Chandra Rajeswar, Gen. Secretary, Communist Party of India. *b.* June 6, 1914, at Mangalapuram, Kistna Dt.; *Educ.*: Hindu High School, Masulipatam; Banaras Hindu Univ.; Vizagapatam Medical Coll. Joined the Communist Party at Banaras, 1931; worked in Andhra in youth and peasant movements from 1936; member, Central Cttee., CPI from 1948; General Secy., CPI 1950-51, Dec. 1964 (7th Congress of CPI) and Feb. 1968 (8th Congress of the CPI). *Address*: 4/7 Asaf Ali Road, New Delhi-1.

RAO, Devulapalli Ramanuja, B.A. (Madras), LL.B. (Nagpur), Author. *b.* Aug. 24, 1917; *Educ.*: Nizam Coll., Madras; Law Coll., Nagpur. Literature, Educ., Journalism and Politics; member: Osmania Univ. Senate (1954-56); Central Adv. Board for Educ., Hyderabad Govt. (1952-55); Central Text Book Cttee. (1952-56); Selection Cttee. for Teachers of Hyderabad Govt. (1952-56); Secy., Andhra Pradesh Sahitya Akademi, Hyderabad; Member, Rajya Sabha, 1960-62; Secy., State Cttee. for Tagore Centenary Celebrations (1960); member: Osmania Univ. Syndicate; AIR Adv. Cttee.; Modern Languages Dev. Cttee. *Publications*: *Navya Kavitha Neerajanamu*; *Vyasa Manjoosha*; *Mana Desamu*; *Adima Nivasulu*; *Visalandhra Vachindi*; *Navanthamu*; *Pacha Thoranam*, etc. *Address*: Andhra Saraswatha Parishath, Tilak Road, Hyderabad 1.

RAO*, J. B. Muthyal, Deputy Minister for Law and Deptt. of Social Welfare, Govt. of India, since Feb. 14, 1969. *b.* Secunderabad Cantt. Elected M.L.A., Hyderabad State from Secunderabad, 1952; elected M.L.A., A.P., 1957; elected M.P. (Lok Sabha) from Mahboobnagar 1962 and from Nagarkurnool (S.C.), 1967; jailed in the freedom movement in Hyderabad, 1938; Founder-member, Hyderabad State Cong. Cttee.; Whip in the Hyderabad and Andhra Pradesh State Legislatures, 1952-62; Deputy Chief Whip in the Centre, 1962; member: Delegation to: Fiji Islands, Australia and Singapore, 1964; International Cfce. of Ministers for Social Welfare to New York, 1968; Dy. Min. for Parliamentary Affairs, Govt. of India, 1967-68. *Address*: Deputy Minister for Social Welfare, Govt. of India, New Delhi.

RAO, J. V. Narsing, M.A. (Pol. Sc.), LL.B., Dy. Chief Min. in charge of Planning, since Aug. '69 & Min. for Public Works, Andhra Pradesh, since, March 1967. *b.* Oct. 14, 1914; *Educ.*: Osmania Univ., Muslim Univ., Aligarh and Banaras Hindu Univs. Was advocate, Supreme Court; is associated with many educational and social

* Resigned ministership on Oct. 17, 1969.

institutions in Hyderabad; was member, Syndicate, Osmania Univ. for more than six years; gave up practice at the Bar; member, A.I.C.C., since 1952; Pres., Hyderabad P.C.C., 1955-57; Minister for Irrigation and Power and Public Works, Andhra Pradesh, 1956-60; is intimately connected with I. N. T. U. C.; Chairman, Andhra Pradesh State Electricity Board, 1963-66; elected M.L.A., A.P. from Lakshettipet Constituency, 1967. Address: "Dwarka", Gaganmahal Colony, Hyderabad-29 (A.P.).

RAO, Jagannath, B.A., B.L., Minister of State for Petroleum & Chemicals and Mines & Metals, Govt. of India, since Feb. 14, 1969. *Educ.*: Ganjam Dist.; Patna Univ. Enrolled as an Advocate, Madras High Court; practised law at Jeypore (Koraput); Advocate, Supreme Court of India, 1957; M.P., Lok Sabha, since 1957; was on the Panel of Chairmen for the Lok Sabha; member: Exec. of the Congress Party in Parliament, 1958-62; A.I.C.C., since 1963; Indian delegation to the 14th Session of the U.N. General Assembly, 1959; led the Indian delegation to the International Congress on Penal Law at The Hague, Aug. 1964; Deputy Minister, Min. of Works, Housing and Supply, May 1962 and later in the Min. of Economic and Defence Co-ordination; Dy. Min., Min. of Law and Deptt. of Social Security, 1964; was Min. of State, Min. of Labour, Employment and Rehab.; Min. of State for: Parliamentary Affairs and Communications, 1966-67; Works, Housing & Supply, 1967-69; also became the Govt. Chief Whip. Address: Ministry of Petroleum & Chemicals, Govt. of India, New Delhi.

RAO, Dr. Kannru Lakshman, B.E., M.Sc., Ph.D. (Birm.), F.I.C.E. (Lond.), M.I. Struct. E. (Lond.), M.I.E. (India). Padma Bhushan (1963), Min. of State for Irrigation and Power, Govt. of India, since July 1963. *b.* July 15, 1902; *Educ.*: Madras and Birmingham. Chief Engr., Floods, Central Govt.; Pres., National Cttee. of the Intn'l Cttee. on Soil Mechanics and Foundation Engg.; awarded the President's Gold Medal thrice for the best contributions to the Journal of Instt. of Engrs. (India) and Hon. D.Sc. degree by Andhra Univ.; Vice-Pres., Intn'l Cfce. on Soil Mechanics and Foundation Engg.; Pres., Instt. of Engrs. for 1959-60 and 1960-61; Pres., Central Board of Irrigation & Power; M.P., Lok Sabha, 1962 & 1967. *Publications*: *Calculations, Designs & Testing of Reinforced Concrete*. Address: 9, Janpath, New Delhi.

RAO, Dr. Vijayendra Kasturi Ranga Varadaraja, M.A. (Bombay), B.A., Ph.D. (Cambridge), D.Litt. (Delhi), Minister for Education, Govt. of India, since Feb. 14, 1969. *b.* July 8, 1908; *Educ.*: Wilson Coll., Bombay; Gonville and Caius Coll., Cambridge. Dir. of Statistics and subsequently Plng. Adv., Food Dept., Govt. of India (1944-46); Chairman, U.N. Sub-Comm. on Eco. Devpt. (1947-50); Corresponding Member, Instt. de Science Economique Applique, Paris, since 1948; member, Univ. Prof. and Founder Dir., Delhi School of Economics, Univ. of Delhi, 1942-57; Vice Chancellor, Delhi Univ., 1957-60; Founder Dir., Institute of Economic Growth, 1960-63; Member, Planning Commission, 1963-66; Min. for Transport & Shipping, 1967-69. *Publications*: *Taxation of Income in India*; *An Essay on India's National Income, 1925-29*; *The National Income of British India, 1931-32*; *War and Indian Economy*; *Post-war Rupee*; *Essays in Economic Development*; *Education and Human Resource Development*. Address: New Delhi.

RATANJANKAR, Dr. Shrikrishna Narayan, B.A., Doctor of Music, Padma Bhushan (1957), Fellow, Sangeet Natak Akademi, Music Composer. *b.* Dec. 31, 1899; *Educ.*: Bombay and Baroda; made a spl. study and practice of Hindustani vocal classical music. Principal,

Bhatkhande Coll. of Hindustani Music, Lucknow, 1928-56; Vice-Chancellor, Indira Kala Sangeeth Vishwavidyalaya, Khairagarh, 1957-60; sings at the A.I.R., Lucknow, Delhi and Bombay; has been examiner in music for B.A., M.A. and Ph.D., Univs. of Madras, Delhi, Nagpur, Agra, Saugar etc.; Vice-Chairman, Music Audition Board, A.I.R. *Publications*: *Sangeet Shiksha*; *Abhinava Geeta Manjari*; *Tana Sangraha*; *Hindusthani Sangeet Ki Swaralipi*; *Varna Mala*. Address: 10A, Hill View, Raghavji Road, Cumballa Hill Post, Bombay 26.

RATHOR, Smt. Vidyawati, Minister for Harijan and Social Welfare, Uttar Pradesh, since Feb. 1969. *b.* 1902 at Khimsipur, Farrukhabad Dist.; *Educ.*: Agra. Joined Congress, 1926; imprisoned seven times in Independence movement; elected M.L.A., U.P. from Etah, 1937; re-elected, 1947, 1952, 1962 and 1969; member, Vidhan Parishad, 1957-62. Address: 43, Civil Lines, Etawah (U.P.).

RAU, M. Chalapathi, M.A., B.L., Editor, *National Herald*, Lucknow, since 1946. *Educ.*: Presidency Coll. and Law Coll., Madras. Advocate, Madras High Court, 1934; entered journalism, 1936; Asstt. Editor: *National Herald*, 1938-42; *Hindustan Times*, 1943-45; member, UNESCO Press Experts Commn., Paris, 1950; Co-Founder, Intn'l. Press Instt., New York, 1950; Pres.: All India Convention of Working Journalists, New Delhi, 1950; Federation of Working Journalists 1950-55; member: Press Commn., 1952-54; UNESCO Experts' Cfce. on Journalism Educ., Paris, 1956; Rep., U.N. General Assembly, 1958; Delegate, UNESCO Gen. Cfce., Paris, 1960; Member, Cttee. on Broadcasting and Inf. Media; member, Exec. Trustee, Nehru Memorial Fund. *Publications*: Co-Editor, *Gandhiji*, Seventy-fifth Birthday volume, 1944; *Fragments of a Revolution*, 1965; *Gandhi and Nehru* (1967); *The Press in India*, 1968. Address: National Herald, Herald House, New Delhi.

RAUT ROY, Satchidananda, Padma Shri (1962), Poet and Writer. Editor, *Diganta* (bi-monthly); Mg. Dir., Orissa Board Mills, Ltd., Cuttack. *b.* 1915, in Orissa; *Educ.*: Graduated, 1939. First to introduce modern verse-forms in Oriya literature; participated in the Harvard Intn'l Seminar of Arts and Sc., 1955; Indian rep. at Social Services Seminars held in Australia & New Zealand, 1952; visited South-East Asia, U.K., France, Italy, Switzerland, 1952; member, Delegation of Indian Writers & Journalists, U.S.A., 1962; National Sahitya Akademi Award in 1963 for *Kavita*—1962; Soviet Land Nehru Award, 1965. *Publications*: *Swagata*; *Pandulipi*; *Avignyan*; *Avijan*; *Palli-Shri*; *Kavita*—1962. Short stories: *Masanir Fulla*; *Matir Taj*; *Chhai*, etc.; *The Boatman Boy and Forty Poems*; *Reference*: *Sochi Raut Roy—A Poet of the People* written by 22 eminent persons of India. Address: Meria Bazar, Cuttack 1.

RAVAL, Anantrai Manishankar, M.A., Ranjitram Gold Medal, 1955. Gujarati Writer; Dir. of Languages, Gujarat State; Member, Gujarati Adv. Cttee., Sahitya Akademi, Delhi; Vice-President, Gujarati Sahitya Parishad. *b.* Jan. 1, 1912; *Educ.*: High School, Amreli; Samaldas Coll., Bhavnagar. Prof. of Gujarati, Gujarat Coll., Ahmedabad, 1934-59; Principal, D. K. V. Coll., Jamnagar, 1959-60; Research Officer, Directorate of Languages, Gujarat State, 1960-64. *Publications*: *Gandhakshat*; *Sahitya-Nikash*; *Samalochana*; *Granthasth Vangmaya*; *Gujarati Sahitya* Part I, etc.; edited *Nalakhyana*, *Madanmohana*, *Kalapi-no-Kavya Kalap*; *Botadkar-ni Kavya Sarita*, etc. Address: 2, Sri Sadma Society, Navrangpura, Ahmedabad 9.

RAY, Dr. Nihar Ranjan, M.A., P.R.S. (Cal.); D.Litt. & Phil. (Leiden), Dip. Lib. (London), F.A.S. (Cal.), F.L.A. (Gr. Br.), F.R.A.S., F.R.S.A. (Lond.), F.I.A.A.L. (Zurich), Dir., Indian Instt. of Advanced Study, Simla, since June 1, 1965. Dean of the Faculty of Arts and Vice-Pres., Post Graduate Coll. of Arts, Calcutta Univ., since 1959. *b.* Jan. 14, 1904; *Educ.*: Mymensingh; Sylhet; Calcutta; Univ. Coll., London; Univ. of Leiden. Member: Central Adv. Boards of Educ., Archaeology and Anthropology; Sangit Natak, Lalit Kala and Sahitya Akademies, since 1960; was Bagisvari Prof. of Indian Art and Culture, Head of the Deptt. of Ancient Indian His. and Culture. *Publications*: *Brahmanical Gods in Burma*; *Sanskrit Buddhism in Burma*; *Art in Burma*; *An Artist in Life*; *Indian Painting*; *Indian Sculpture*; etc. *Address*: 68-4A, Purna Das Road, Calcutta-29; Indian Institute of Advanced Study, Rashtrapati Nivas, Simla 5.

RAY, Smt. Renuka, B.Sc. (Econ.) (London), Ex-Pres., All India Women's Conference; member, A.I.C.C. *b.* Jan. 1904; *Educ.*: Loreto House School and Diocesan Coll., Calcutta; London School of Economics, London Univ. Member and Social Secy., A.I.W.C., since 1961; member: Central Leg. Assembly, 1943-46; Governing Body of Viswa-Bharati Univ., Santiniketan, 1941-48 and since May 1, 1958; Constituent Assembly and provisional Parliament, 1948-52; Indian Delegate, U.N. Gen. Assembly, 1949; Min. of Rehab., Govt. of West Bengal, 1952-57; Member, Estimates Cttee., Lok Sabha; 1957-59; Chairman, Cttee. on School Health (Min. of Health); M.P., Lok Sabha, from Malda Constituency, 1957-67; leader, Plan Projects Cttee. on Social Welfare; member, Central Farming Plng. Council; Pres., Women's Co-ordinating Council, W. Bengal; *Address*: 24/1, Ballygunge Circular Road, Calcutta 19.

RAY, Satyajit, B.A., Padma Shri (1958), Padma Bhushan (1965), Magsaysay Award for Journalism and Literature (1967), Film Producer and Dir. *b.* May 2, 1922; *Educ.*: Presidency Coll., Calcutta; Kalabhavan, Santiniketan; Viswa-Bharati Univ., Santiniketan. Produced the film *Pather Panchali*, won the 1959 Selznick award and the gold laurel trophy for his films *Pather Panchali* and *Aparajita*; won the 1963 Selznick's Golden Laurel for the non-American best film showing intn'l understanding; his other films are *Aparajita*, *Apur Sansar*, *Paras Pathar*, *Jalsaghar* and *Devi*; awarded first prize for best film direction for his 'Charulata' by the Berlin Intn'l Film Festival, July 1965; special award of honour by the 16th International Film Festival in Berlin in recognition of his artistic eminence in the world of film, 1966. *Address*: 3, Lake Temple Road, Calcutta 27.

REDDI, Dr. Bezwada Gopala, D. Litt., Governor of U.P., since May 1967; Chairman, Children's Film Society. *b.* Aug. 1907; *Educ.*: Viswa Bharati, Santiniketan. President: Dakshina Bharat Hindi Prachar Sabha (A.P.); Telugu Bhasha Samiti, since 1947; Andhra Pradesh Sahitya Academy, since 1957; All India Chess Federation since 1959; Hindi Assoc. of Parliament; Chairman, Cttee., Central Sahitya Akademi; Member, A.I.C.C., since 1931; elected M.L.A., Madras, 1937-46; Min. for Local Adm., Govt. of Madras, 1937-39; Pres.; Andhra P.C.C., 1953; Pro-Chancellor, Andhra Univ., 1951-57; Chief Minister, A.P., 1955-56; Fin. Min., Madras, 1947; Home Min., A. P., 1956; Fin. Min., 1957; elected M.P., Rajya Sabha, 1958-60; Lok Sabha, 1962; Min. of Rev. and Civil Expenditure, Govt. of India, 1958-61; Min. for I. & B., 1962-63; resigned under the 'Kamaraj Plan', Aug. 1963; Dy. Leader, Cong. Parly. Party 1965-May 1967. *Publications*: *Chitranguda*; has translated some

books of Tagore into Telugu from original Bengali. *Address*: Raj Bhavan, Lucknow.

REDDI, Kasu Brahmananda, B.A., B.L., Chief Minister, Andhra Pradesh, since Feb. 29, 1964. *b.* July 28, 1909. Member: A.I.C.C.; Andhra Univ. Senate; imprisoned, 1941 and detained, 1942; Pres., Guntur Dist. Board, 1936; Member, Madras Assembly, 1946-52; Gen. Secy., A.P.C.C. from March 1955; Fin. and Plng. Min. in Sanjiva Reddy cabinet; Fin. Min., 1960-62; Min. for Fin. & Coop., A.P., March 1962-Feb. 1964; unanimously elected leader, A.P. Leg. Cong. Party, June 26, 1964. *Address*: Anand Nilayam, Begumpet, Hyderabad.

REDDI, Pidathala Ranga, Chairman, Andhra Pradesh Legislative Council, since July 15, 1968. *b.* Sept. 10, 1917; *Educ.*: Markapur, Kurnool Dt. Entered politics in his student days; Pres., Kurnool D.C.C., 1941; courted jail in the freedom movement; member, APCC and AICC since 1940; elected to the Provisional Parl. from Madras, 1950; elected M.L.A., Madras 1952; Chief Whip, Congress Party in composite Madras State, 1952-58; Pres., P.C.C., 1958; Min. for Planning. and Inf., 1960-62; M.L.C., Andhra Pradesh, 1966. *Address*: No. 2, Ministers' Quarters, Begumpet, Hyderabad 16.

REDDY, H. G. V., B.Sc. (Hons.) (Mysore), I.A.S., Managing Director & Vice-Chairman, Mysore Iron & Steel Ltd., Bhadravati. *b.* Jan. 15, 1922; *Educ.*: Univ. of Mysore; London School of Economics, Univ. of London. Mysore Govt. Trade Commissioner in London, 1953-57; Joint Regl. Dir. of Food, Govt. of India, 1957-60; Dir., Mysore Spun Silk Mills Ltd., 1960; Vice-Chairman & Mg. Dir., Kolar Gold Mining Undertaking, 1960-61; Secy. to the Governor of Mysore, 1961; Project Admr., Surgical Instruments Plant, Madras, 1961-68; Chairman, Mysore Asbestos Ltd., since 1968; Chairman and Mg. Dir., Mysore Paper Mills Ltd., Bangalore, since May 22, 1969; travelled extensively all over the world. *Address*: Mg. Dir. & Vice-Chairman, Mysore Iron & Steel Ltd., Bhadravati (Mysore State).

REDDY, Kyasambally Chengalarya, B.A., B.L., LL.D. Honoris Causa, Governor, Madhya Pradesh, since Feb. 11, 1965. *b.* May 4, 1902; *Educ.*: Mysore and Madras. Pres.: Mysore Cong., 1937-38 and 1946-47; launched freedom struggle in Mysore; Leader of the Assembly thrice since 1947; Chief Min., 1947-52; member, Indian Constituent Assembly, 1947-50; M.P., Rajya Sabha, 1952-57; Lok Sabha, 1957-64; member: Exec. Cttee., All-India States Peoples' Cfee., 1944-45; Working Cttee., Mysore Cong., 1937-52; Union Min. for: Production 1952-57; Works, Housing & Supply, 1957-61; Commerce and Indus., 1961-63; Dy. Leader, Cong. Party in Parliament, 1963-64; visited U.S.A., U.K., Continent & U.S.S.R. *Address*: Kyasambally Village, P.O. K.G.F., Mysore State; Raj Bhavan, Bhopal.

REDDY, K. V. Raghunatha, M.A., LL.B., Minister of State in the Ministry of Industrial Development and Company Affairs, Govt. of India, since March 13, 1967. *b.* Sept. 4, 1924, at Virur, Nellore Dist.; *Educ.*: Annamalai Univ., Lucknow Univ. Member, Senate, Annamalai Univ., 1947-59; enrolled as Advocate, Madras High Court, 1950 and Supreme Court 1958; elected member, Rajya Sabha, 1962; represented Rajya Sabha at the Commonwealth Confce., 1966; delivered extension lectures in Humboldt Univ., E. Germany and at the Institute of Economics and Politics, Prague on "Paths to Socialism and Economic Development" and "Nehru's Contribution to Socialist Thought". *Publications*: *Criminal*

Law-Procedural and Substantial. Address: Ministry of Industrial Development and Company Affairs, Govt. of India, New Delhi.

REDDY, Neelam Sanjiva, Member of Parliament (Lok Sabha). *b.* May 19, 1913; *Educ.*: Adyar; Arts Coll., Anantapur. Secy., Andhra P.C.C., 1936-46; courted jail for participation in Satyagraha movement; Congress M.L.A., Madras, 1946; was Secy., Madras Cong. Leg.; member, Indian Constituent Assembly, 1947; Min. for Prohibition, Housing and Forests, Madras, 1949-51; resigned and elected Pres., Andhra P.C.C.; was Exec. Cttee. member and Parly. Board member of A.I.C.C. till the Avadi Cong. Session; M.P., Rajya Sabha, 1952-53; M.L.A., Andhra, 1953 and 1955; unanimously elected Leader, Andhra Cong. Leg. Party; Dy. Chief Min. of Andhra State, 1953 & 1955-56; Leader, A.P. Cong. Leg. Party, Oct. 21, 1956; Chief Min., A.P., 1956-60 & 1962-63; Pres., Indian Nat. Cong., 1960-62; Union Min. for Steel and Mines, 1964-66; member, Central Election Cttee., A.I.C.C., since May 1966; Min. for Transport, Aviation, Shipping and Tourism, Govt. of India, Jan. 1966-May 1967; Speaker, Lok Sabha, 1967-69. *Address:* New Delhi.

REDDY, Mr. Justice Pingle Jaganmohan, B.Com. (Leeds), B.A. (Law Tripos), LL.B. (Cantab.), Barrister-at-Law, Judge, Supreme Court of India since Aug. '69. *b.* Jan. 23, 1910; *Educ.*: Hyderabad; Leeds; Law Tripos, Cantab. Practised in the High Courts of Bombay, Madras and Hyderabad, 1937-46; Expert Member, Leg. Council for Income-tax and Company Law; Addl. Judge, Hyderabad High Court, 1948; Dist. and Sessions Judge, Secunderabad, 1950-52; Puisne Judge, High Court, Hyderabad, 1952-56; Member, Syndicate & Dean, Faculty of Law, Osmania Univ., 1952-59; Offg. Vice-Chancellor, Osmania Univ. 1959; judge, High Court of Andhra Pradesh, 1956-66; Chief Justice, 1966-69; Member of Jury, Jawaharlal Nehru Award for International Understanding, since 1966. *Publications:* *The Hyderabad Excess Profits Tax Act*. *Address:* 'Lumbini Gardens', Saifabad, Hyderabad 22; New Delhi.

REDDY, Ravi Narayan, Communist Leader. *b.* June 4, 1908; *Educ.*: Nizam Coll., Hyderabad. Discontinued college studies & joined C. D., movement, 1930; one of the founders of the State Congress; joined Andhra Mahasabha, 1933; elected Pres. and presided over three open annual sessions, 1941, 1944, 1945; joined C.P.I., 1939; jailed twice once as a Congressman, 1938 and as a communist, 1951: was underground for five years; elected to the State Leg., 1957; was Dy. Leader of the Opposition and Chairman, Public Accounts Cttee., Andhra Pradesh Leg. Assembly; elected M.P., from Nalgonda, 1962-67. *Address:* Post Bollepalay, T. K. Bhongir (S.C.R.), A.P.

REGE, Purushottama Shivarama, B.A. (Bombay), B.Sc. (Econ.) (Lond.), Marathi poet and writer; Principal and Prof. of Economics, Elphinstone Coll., Bombay. *b.* Aug. 2, 1910; *Educ.*: Bombay and London. *Publications:* Books on Scientific Methods and Civics; Poems, Short Stories, Dramas and Novels. *Address:* Elphinstone Coll., Bombay 32.

REZA, H. E. Mr. Amirteimur Mohammad, Ambassador of Iran to India. *b.* 1916; *Educ.*: Univ. of Tehran. Joined Min. of Foreign Affairs, Iran, 1945; Secy., Iranian; Embassy, London, 1947-52; Special Secy. to the Min. of Foreign Affairs, 1952-54; First Secy., Iranian Embassy, London, 1954-58; Director, Passport Deptt., Min. of Foreign Affairs, 1958-59; Counsellor, Iranian Embassy, Beirut, 1959-61; Consul-General in Quetta (Pakistan),

1961-63; Dir., Deptt. of West Asia Division Foreign Office, 1963-65; Director-General for Political Affairs, Min. of Foreign Affairs, 1965; promoted Dy. Min. for Political Affairs, Min. of Foreign Affairs. *Address:* 1, Harley Lane, New Delhi 1.

RICHE, H.E., Mr. Omar Abou, M.A., Ambassador of Syria in India. *b.* 1910; *Educ.*: took M.A. degree; is a member of the Academy of Letters, Damascus and of the Academy of Philology, Rio de Janeiro. Had been Ambassador to Brazil, Argentina, Chile and the U.S.A.; was also Ambassador of the U.A.R. to India and Austria; Syrian Delegate to UNESCO, 1949. *Publications:* Three volumes of poetry in Arabic; some of his literary works have been translated into English, Spanish, French, German and Czech languages. *Address:* 10, Panch Sheel Marg, Chanak-yapuri, New Delhi 21.

ROY, Provas Chandra, Minister for Fisheries, West Bengal, since Feb. 1969. *b.* April 14, 1907. Was Secy., 24-Parganas Dist. Congress Cttee. for a long time; later became Secy., Dist. Communist Party; imprisoned many times in the freedom movement; returned to the State Assembly, 1952, 1957, 1967 and 1969. *Address:* Writers' Buildings, Calcutta.

ROY, Satya Priya, M.A. (English), Minister for Education, West Bengal, since Feb. 1969. *b.* March 1907 in Mymensingh Dist.; *Educ.*: Dacca Univ. Took a leading part in West Bengal's Secondary teachers' movement; was Head-master of a school in Calcutta; was Secy., All India Federation of Educational Assoc. (Secondary Section) and All Bengal Teachers' Assoc.; is a member of the Leg. Council. *Address:* Writers' Buildings, Calcutta.

ROY, Smt. Sudha, B.A. (Calcutta), Trade Unionist; Gen. Secy., United Trades Union Congress. *b.* Feb. 16, 1913; *Educ.*: Dacca; Ashutosh Coll., Calcutta. Connected with trade union movement and women's movement from 1933; rep. to the 3rd Congress of the W.F.T.U. at Vienna; rep. of the Mahila Sanskritik Sammelan to the 3rd Cong. of the Women's Int'l. Democratic Federation, Copenhagen, 1953; visited U.S.S.R., Czechoslovakia & Hungary; N.F.I.W. rep. to 5th World Congress of Women in Moscow, 1963; Pres., Dock Mazdoor Union, Calcutta; Vice-Pres., National Federation of Indian Women; Gen. Secy.: Loka Shiksha Parishad; Mahila Sanskritik Sammelan; Exec. Cttee. member, Water Front Workers Educ. Assoc. & Save the Children's Cttee. India. *Address:* 153-A, Motilal Nehru Road, Calcutta 29.

RUIA, Madanmohan Ramnarain, B.A., Merchant, Banker and Millowner. *b.* Aug. 24, 1914; *Educ.*: Marwari Vidyalaya and St. Xavier's Coll., Bombay. Dir.: Ramnarain Sons Pvt. Ltd., United Commercial Bank Ltd., Bajaj Auto Ltd., Baroda Rayon Corpn. Ltd., Ramnarain Sons (Pakistan) Ltd., The Great Eastern Shipping Co. Ltd., Century Spg. & Mfg. Co. Ltd., Mukund Iron & Steel Works Ltd., M. Ramnarain Pvt. Ltd., etc.; Pres.: F.I.C. C.I., 1959-60; East India Cotton Assoc. Ltd., Cotton Buyers' Assoc.; Trustee, Bombay Port Trust; member: Cotton Imports Adv. Cttee., Bombay, Customs Adv. Cttee., Cttee. of Indian Merchants' Chamber etc.; Leader, Indian delegation to Afro-Asian Eco. Cfee., 1958; Int'l. Businessmen's Cfee., Karachi, 1960, etc. *Address:* State Bank Building, Bank Street, Fort, Bombay.

RUIA, Radhakrishna Ramnarain, B.A., Merchant and Millowner. *b.* Jan. 14, 1916; *Educ.*: Marwari Vidyalaya and St. Xavier's Coll., Bombay. Dir.: Ramnarain Sons Pvt. Ltd.; Phoenix Mills Ltd.; Bradbury Mills Ltd.; Dawn Mills Co. Ltd.; United Agencies Pvt.

Ltd., Kolhapur; Malabar Steamship Co. Ltd.; Ruia Industries Pvt. Ltd.; Radhakrishna Ramnarain Pvt. Ltd.; Kolhapur Sugar Mills Ltd., Kolhapur; Ramnarain Sons (Pakistan) Ltd., Karachi; Paper Mill Plant & Machinery Mfrs. Ltd.; Morarjee Gokuldas Spg. & Wvg. Co. Ltd.; Coorla Spg. & Wvg. Co. Ltd.; West India Chemicals Ltd.; Dy. Chairman: Governing Council of Bombay Textile Research Assocn.; Chairman: Bombay Regional Cttee. on Maintenance of Machinery; Millowners' Assoc., Bombay, 1963, 1967-69; Indian Cotton Mills Federation for 1969. *Address*: State Bank Building, Bank Street, Fort, Bombay 1.

RUIA, Ramniwas Ramnarain, Merchant, Banker and Millowner; Senior Dir., Ramnarain Sons Private Ltd., Bombay. *Educ.*: Marwari Vidyalaya, Bombay and privately. Entered business at an early age: Dir.: Ramnarain Sons Pvt. Ltd., Finlay Mills Ltd., Bank of India Ltd., Andhra Valley Power Supply Co. Ltd., New India Assurance Co. Ltd., Modern Family Plng. Products Ltd., Trafford Cotton Co. Ltd., England, Dawn Mills Co. Ltd., Kolhapur Sugar Mills Ltd., National Machinery Mfrs. Ltd., Bradbury Mills Ltd., Intn'l Computers & Tabulators (I) Pvt. Ltd., Indoplast Ltd., Carona Sahu Co. Ltd., Synthetics & Chemicals Ltd., etc.; Member, Assoc. of Indian Trade and Industry. *Address*: State Bank Building, Bank Street, Fort, Bombay.

RUKMINI Devi Arundale, Padma Bhushan, Doctorate in Humanities (Wayne State Univ., Detroit); President's award for Bharata Natya; Queen Victoria Silver Medal of the RSPCA, London; Fellowship of Sangit Natak Akademi; Prani Mitra Award; President: Kalakshetra (International Art Centre), Indian Vegetarian Congress; Y.M.I.A.; Besant Centenary Educational Trust; Chairman, Animal Welfare Board; Director of International Society for Protection of Animals, London; Adyaksha, Dr. U. V. Swaminatha Aiyar Library; Nominated member of Rajya Sabha for two terms; Exponent of Bharata Natya; Specialised in classical music, dance dramas and plays; producer and composer of dance dramas and dramas including *Kuttala Kuravanji*, Kalidasa's Kumara Sambhavam, 5 parts of Valmiki *Ramayana* — namely *Sita Swayamvaram*, *Rama Vana Gamanam*, *Paduka Pattabhishekam* and *Sabharai Moksham*, *Kannappar Kuravanji*, *Shyama*, *Andal*, *Choodamani Pradanam*; Kalidasa's *Sakuntalam* and other productions. Prominent Theosophist, Speaker & Writer. *Address*: Kalakshetra, Madras-41.

SADIQ, Ghulam Mohammad, B.A., LL.B., Chief Minister, Jammu & Kashmir State, since Feb. 28, 1964. *b.* 1912; *Educ.*: C. M. S. High School, Srinagar; S. P. Coll., Srinagar; Islamia Coll., Lahore and Muslim Univ., Aligarh. Elected member, first State Leg. Assembly, 1934; courted arrest in agitation against Govt. in 1938; Chairman, Muslim Cfee. when it resolved itself into the National Cfee., 1939; elected Dy. Leader, National Cfee. Assembly party; acted as Head of Adm. of the State, Jan.-Feb. 1948; Devpt. Min., 1948-51; elected Pres., Jammu & Kashmir Constituent Assembly, 1951; Health and Educ. Min., 1953-57; Founder Pres., Kashmir Cultural Congress; resigned from the Council of Ministers and the Nat. Cfee. party, 1957 and formed the Democratic Nat. Cfee.; was its Leader till its merger with the Nat. Cfee., 1961; Hon. Vice-Pres., Indian Soc. of Intn'l Law; member, National Defence Council, since July 1964; elected to J. & K. Assembly, 1967. *Address*: Gagribal, Srinagar, Kashmir.

SAHAY, Bhagwan, B.Sc. (Allahabad), Padma Bhushan (1961), Governor of Jammu & Kashmir State, since May 15, 1967. *b.* Feb. 15, 1905; *Educ.*: Allahabad

Univ.; School of Oriental Studies, London. Jt. Magistrate, U.P., 1929; Dy. Secy. to Govt., U.P., 1936-39; Supdt., Census Operations, 1939-41; Secy., Indian Council of Agr. Research, 1941-43; Jt. Secy., Govt. of India, 1944-45; Commr., Food & Civil Supplies, 1946-49; Chief Secy., U.P. Govt., 1949-51; Chief Commr.: Himachal Pradesh, 1951-52; Bhopal 1952-54; Indian Amb. to Nepal 1954-59; Chief Commr., Delhi, 1959-63; Lt. Governor, Himachal Pradesh, 1963-65; Governor of Kerala, Feb. 1966 to May 1967. *Address*: Srinagar.

SAHNI, Balraj, M.A., Film Actor, Writer (Punjabi). *b.* May 1, 1913; *Educ.*: Lahore. Taught at Shantiniketan, 1937-39; announcer at B.B.C., London, 1940-44; since 1944 has been working in films at Bombay; outstanding films, *Do Bigha Zamin*, *Seema*, *Kabulwala*, *Hageegat*, *Wagt*, etc. *Publications*: A book of Hindi short stories, travelogues on Pakistan and Soviet Union. *Address*, "Ikram," Juhu, Bombay 54.

SAIYIDAIN, Dr. Khwaja Ghulam, B.A., M.Ed.: Doctor of Letters (Honoris Causa), Aligarh, 1962, Academy of Letters Award (1964), Padma Bhushan (1967), Dir., Asia Instt. of Educl. Plng. & Adm.; was Educl. Adv. to the Govt. of India. *b.* Feb. 14, 1904; *Educ.*: Univ. of Aligarh and Leeds (England). Prof. of Educ., Aligarh Muslim Univ., 1926-38; Dir. of Educ., Kashmir Govt., 1938-45; Educl. Adv. to Rampur Govt., Bombay Govt., Govt. of India, Kashmir Govt., 1945-62; Pres., Intn'l New Educ. Fellowship, London, since 1956; Visiting Prof. and Sachs Memorial Lecturer at Columbia Univ.; Visiting Prof. of Educ.: Wisconsin Univ., 1963; Stanford Univ., 1964; member, Indian Educ. Commn., 1964-67. *Publications*: (English and Urdu) *Principles of Education*; *Iqbal's Educational Philosophy*; *Education for International Understanding*; *Humanist Tradition in Indian Educational Thought*; *Universities and Life of the Mind*, etc.; *Andhi men Charagh* (Lamp in the Storm), which won the Academy of Letters Award. *Address* DII/9, Pandera Road, New Delhi 1.

SAMSON, Rear Admiral Benjamin Abraham, Mg. Dir., Mazagon Dock Ltd., since June 1, 1966. *b.* Sept. 25, 1916; *Educ.*: Trg. Ship "Dufferin". Dufferin Cadet 1932-34; passed with distinction obtaining an extra 1st class certificate and winning the Viceroy's Gold Medal; served the Merchant Navy for 5 years; commissioned in the Royal Indian Navy, 1939; was Indian Naval Adv. in the U.K.; Chief of Personnel, Naval Hq.; Commanding Officer, I.N.S. Delhi and Captain Supdt., Naval Dockyard, Bombay; promoted Rear Admiral and apptd. Commandant, N.D.A. Dec. 1958; completed a course at the Imperial Defence Coll., U.K., 1963; Flag Officer Commanding, Indian Fleet, 1964-66. *Address*: Mazagon Dock Ltd., Dockyard Road, Bombay 10.

SANKALIA, Dr. Hasmukh Dhirajlal, M.A., LL.B., Ph.D. (London). Prof. and Head of the Dept. of History and Jawaharlal Nehru Memorial Fellow, Deccan Coll. Post Graduate and Research Instt., Poona. *b.* Dec. 11, 1908; *Educ.*: Elphinstone High School; St. Xavier's Coll. and Law Coll., Bombay; Univ. Coll., London. Bhagwallal Indrajai Prizeman (1933), Silver Jubilee Medal, Bombay Branch, Royal Asiatic Soc. (1944); Dadabhai Naoroji Prize, 1968; conducted excavations and explorations in prehistory and early history relating to Gujarat, Maharashtra, Karnatak, Madhya Pradesh, Andhra, Mysore, 1941-65; Govt. of India delegate to: VII International Congress of Prehistory, Prague and Cultural Delegation to Yugoslavia, 1966; International Cong. of Orientalists, Ann Arbor, U.S.A., 1967. *Publica-*

tions: *The University of Nalanda; From History to Pre-history of Nevasa; Pre-history and Proto-history in India and Pakistan*, etc. Address: Deccan College Research Institute, Poona 6.

SANYAL, B. C., Painter, Sculptor; b. April 22, 1904; Educ.: Calcutta Univ.; Govt. School of Art, Calcutta. Travelled extensively in Russia, Poland, Hungary, etc. as leader of the Artists' delegation, 1955-56; visited: imp. art galleries, museums and institutes in U.S.A. under the leaders and specialists exchange programme of U.S.A. Govt., 1959; Canada on a lecture tour under the auspices of the Canadian Council for Co-op. with UNESCO, 1959; Netherlands to study Dutch painting and culture, 1959 and Nepal under the Colombo Plan to advise on art educ.; Secy., Lalitkala Akademi. Publications: Articles on Art in journals, newspapers and for radio broadcast. Address: B-15, Nizamuddin East, New Delhi.

SANYAL, Probhodh Kumar, Bengali Author, Playwright and Journalist. b. July 7, 1905; Educ.: Scottish Churches School & City Coll., Calcutta. Imprisoned during N. C., 1922; Associate Editor, *Jugantar*, 1937-41; awarded first prize as the best scenario-writer, 1942-52; Pres., All-India Bengali Literary Conference, Agra, 1956, Burma 1957; member: Indian Cultural Delegation to Pakistan, 1957; Nepal, 1960; visited U.S.S.R. on invitation by the Soviet Writers' Union Board, 1959; visited Germany, England & France on invitation by Govts. and Cultural organisations, 1962; awarded Cal. Univ. Gold Medal for his contributions to Bengali literature, 1966; Founder-Pres., Calcutta Himalayan Association & Himalayan Federation. Publications: 94 books comprising fiction, travels, dramas, anecdotes, etc.; *Mahaprasthanar Pathe* and *Devatatma Himalaya* (forewords by Tagore and Jawaharlal Nehru). Address: 6, Ballygunge Terrace, Calcutta 19.

SARABHAI, Smt. Bharatidevi, B.A. (Hons.) (Bom.) and (Oxon.), English and Gujarati Poet and Playwright and Theatre Organiser. b. July 31, 1912; Educ.: Home School; Bombay and Oxford Univs. Prof. of Indian Research and Culture, Post-Graduate Instt. (B.J. Instt. of Learning & Research, Ahmedabad); Principal, Shreya Coll., Gujarat Univ., 1955-61; Pres., Theatre Centre, India, affiliated to the I.T.I. of UNESCO, 1960; Hon. Secy., Gujarat Univ. Commn., 1945-47. Publications: *The Well of the People* (a poetic drama); *Two Women: Be Nari* and *Ghar Lakhoti* (in Gujarati). Address: Shahibag, Ahmedabad 4.

SARABHAI, Dr. Vikram Ambalal, M.A., Ph.D. (Cantab), S. S. Bhatnagar Memorial Award for Physics, 1962; Padma Bhushan (1966); Chairman, Atomic Energy Commission, and Secretary to the Govt. of India, Dept. of Atomic Energy, since 1966; Professor of Cosmic Ray Physics and Director, Physical Research Laboratory, Ahmedabad. b. Aug. 12, 1919; Educ.: Gujarat College, Ahmedabad; St. John's College, Cambridge; did research for five years (1940-45) on cosmic radiation under Sir C. V. Raman, N. L., at the Indian Institute of Science, Bangalore, and on nuclear physics at the Cavendish Laboratory, Cambridge 1946. Chairman: Indian National Cttee. for Space Research, 1962; Electronics Committee of the Dept. of Defence Supplies of the Govt. of India, 1967; Electronics Corporation of India Ltd., 1967; Member: Pugwash Continuing Committee; Governing Body, C.S.I.R.; Central Advisory Board of Education; Cttee. on Science & Technology, Govt. of India; National Planning Council; National Defence Council; Study Team on Scientific Departments of the Administrative Reforms Commission; Indian National Committee for International

Council of Scientific Unions; Scientific Council of the International Institute of Peace and Conflict Research, Sweden; American Geophysical Union and several such bodies; Fellow: Indian Academy of Sciences; National Institute of Sciences of India; Physical Society, London; Cambridge Philosophical Society. Publications: Several publications in *Physical Review*, *Nature*, *Physical Society of London*, *Proceedings of the Indian Academy of Sciences*, *Proceedings of the Royal Society Journal of Geophysical Research*, *Astrophysical Journal* etc. Address: Chidambaram, Ahmedabad-13.

SARAIYA, Ramanlal Gokaldas, B.A., B.Sc., Padma Bhushan (1963), J.P., Cotton Merchant and Chairman: Narandas Rajaram & Co. Pvt. Ltd., Bombay, since 1961; Banking Commn., since March 11, 1969. b. Jan. 16, 1898; Educ.: Bombay Univ.; England. Fellow of the Chemical Soc., London. Vice-Pres., Indian Central Cotton Cttee., 1947-52; Pres.: Indian Merchants' Chamber, 1950; F.I.C.C.I., 1953-54; often led the Indian Delegation to the Intn'l Cotton Adv. Cttee.; Chairman, 22nd plenary Session of I.C.A.C., Bangalore, 1963; Chairman: Maharashtra State Road Transport Corpn.; Textile Cttee., etc.; Dir.: Central Board of the R.B.I., Hind Cycles Ltd., Tata Chemicals Ltd., etc.; member: Cotton Adv. Board, Indian Cotton Devpt. Council; R.B.I. Stg. Adv. Cttee. on Agricultural Credit, etc. Address: Casa Grande, 22, Little Gibb's Road, Bombay 6.

SARASWATHI BAI, Smt. C., Harikatha performer. b. Dec. 15, 1896, in Gooty; Educ.: Madras; Tanjore. Is one of the pioneers in Harikatha field; toured all over India and Far East; honoured by many Rajas and Nawabs of former States; conferred several awards, e.g. Kirtanapati; Sangita Samskrita Vidyaratna by Kasi Pandit Sabha, 1936; Sangita Ratna by Bharath Dharma Maha Mandal, Kasi, 1938; honoured as the best exponent of Harikatha by the Tamilnad Sangeetha Nataka Sangham, 1962; Fellow of the Sangitha Natak Academy, 1964. Address: 17, 7th Main Road, Raja Annamalaiapuram, Madras 28.

SAREN, Bhabatosh, M.A., B.L., Minister for Forests, West Bengal, since Feb. 1969. b. Feb. 1, 1934; Educ.: Collegiate School, Bankura; Christian Coll., Bankura; Calcutta Univ. Practised as Advocate at Bankura Bar, 1958-59; was Secy., Zilla Adibasi Mahasabha, Bankura; was in Govt. service, 1959-65; entered politics, 1965; elected M.L.A., West Bengal on Bangla Congress ticket, 1967; imprisoned in the agitation against the dismissal of U.F. Govt., 1968; again elected M.L.A. from Raipur, 1969. Address: Writers Building, Calcutta 1.

SARIN, Harish Chandra, M.Sc. (Alld.), Mathematical Tripos (Camb.), Wrangler, 1937, I.C.S., Defence Secretary, since Nov. 1968. b. May 27, 1914; Educ.: Allahabad and Cambridge; Imperial Defence Coll., London. Entered I.C.S., 1939; Dy. Secy., Political & Appt. Deptt., Bihar Sectt.; served in Defence, Commerce, Transport & Civil Aviation Ministries, Govt. of India, since 1946; Secretary to Govt. of India, from July 1964; member of various Cttees. appointed by Min. of Education like Deshmukh Cttee. on National Service for Youth 1959-60; member, All India Council of Sports since 1966; Founder Member-Secy., Himalayan Mountaineering Institute, Darjeeling from 1954 and of Nehru Institute of Mountaineering, Uttar Kashi from 1965; Founder-Member from 1957 and Pres. from 1966, Indian Mountaineering Foundation which sponsored various Mountaineering expeditions including the successful Indian Mount Everest Expedition of 1965; Chairman: Central

Seett. Sports Control Bd. (Hockey and Football); Tournament Cttee., All India Jawaharlal Nehru Hockey Tournament; Mazagon Dock Ltd., 1964-69. *Address*: 18, Tughlak Crescent, New Delhi.

SARKAR, Charumihir, M.A., B.T. (Calcutta), Minister for Community Development, West Bengal, since Feb. 1969. *b.* Aug. 31, 1924; *Educ.*: Malikandah in Dacca Dist.; Surendranath Coll., Calcutta; Calcutta Univ. Has been a keen social worker; founder and Head-master, Ramchandrapur Palli Mongal Vidyapith, 24-Parganas; elected M.L.A., West Bengal, from Hanskhali (SC) Constituency, as a Bangla Congress nominee, 1967; Minister in the U.F. Cabinet, 1967; elected again, 1969. *Address*: Writers' Buildings, Calcutta.

SARMENTO C., H.E. Mr. Eduardo, Engr. (Lima Univ.), Amb. of the Republic of Peru in India, since 1964. *b.* Sept. 5, 1904; *Educ.*: Lima, Peru and The United States of North America; Univ. of Lima Engr.s and Univ. of Portland, Oregon, U.S.A. Vice-Consul of Peru in New York, U.S.A., 1930-32; Consul in Portland, Oregon, U.S.A., 1933-42; Consul Gen. in Africa, Chile, 1943; Chief of Deptt. Europe and Asia, Min. of Ext. Affairs en Lima, Peru, 1944; First Secy., Embassy of Peru, Mexico, 1945; Consul Gen. in: Amsterdam, Netherlands, 1946-48; Antwerp, Belgium, 1949-50; Dir., Min. of Ext. Affairs, Lima, Peru, 1951-62; Min. Plenipotentiary of Peru in India to initiate diplomatic relations, 1963. *Address*: Ashoka Hotel, New Delhi; *Residence*: D-290, Defence Colony, Chancery of Embassy, New Delhi.

SASTRI, B. S. Krishnamurthy, Musician; Principal, Kalakshetra, Adyar, Madras. *b.* April 28, 1896; *Educ.*: Learnt vocal music under his father Sri Sethurama Sastrigal; took trg. in vocal music from Konerirajapuram Sri Vaidyanatha Iyer; learned gottuvadyam from Sri Muthia Bhagavathar; has been giving concerts continuously for the last 50 years; awarded by the President a shawl, a gold *shrinkal* and a sanad in recognition of his service to the cause of instrumental music, 1958; Sangeet Kalanidhi Title conferred by Music Academy, Madras, on Jan. 1, 1964; Visiting Prof., Karnatic Coll., Madras. *Address*: 27, Urur, Adyar, Madras 20.

SATHE, Dr. Ramchandra Vishwanath, M.D. (Bombay), F.R.C.P. (Lond.), ex-Vice-Chancellor, Bombay Univ., 1963-66; Pres., Diabetic Assoc. of India; Hony. Dir. of Post-graduate Studies in Medicine and Emeritus Prof. of Medicine, Grant Medical Coll., Bombay; Consulting physician. *b.* Nov. 28, 1905; *Educ.*: Elphinstone High School, Elphinstone Coll. and Grant Medical Coll., Bombay; London; won several scholarships, J. J. Gold Medal for Clinical Medicine and Hewlett prize for Hygiene. Member: Medical Council of India; Senate and Faculty of Medicine, Bombay Univ.; Health Survey & Plng. Cttee., Govt. of India; New York Academy of Scs.; Indian Medical Assoc. delegate, World Medical Educ. Cfee., Chicago and World Medical Assoc. Session, Montreal, 1959; Pres.: Ind. Med. Assoc., 1962; World Medical Assoc., 1962-63; Dy. Pres., World Cfee. on Medical Educ., 1966. *Address*: Nagindas Mansion, Girgaum Road, Bombay 4.

SATHIAVANIMUTHU, Smt., Minister for Harijan Welfare and Public Health, Tamil Nadu, since March 6, 1967. *b.* 1923; *Educ.*: St. Teresa's Convent, Ernakulam, Kerala; Govt. Secondary School, Egmore. Is a homoeopathic doctor; Exec. member, Dravida Kazhagam, 1943-49; is one of the founder members of D.M.K.; is a member, Exec. Cttee. and General Council, D.M.K.; Secy. for propaganda of the party; courted jail in the

anti-Hindi agitation; is connected with a number of social welfare institutions and 'Magalir Mandram' (Women's Assoc.); is Pres., Women's Wing of the Party; elected M.L.A., Madras from Perambur, 1957 and 1967. *Publications*: *A Sketch of the life of Joan of Arc*, in Tamil and many others. *Address*: Minister for Harijan Welfare and Information, Fort St. George, Madras 9.

SATPATHY, Smt. Nandini, M.A., Deputy Minister attached to the Prime Minister of India, since Feb. 14, 1969. *b.* 1931; *Educ.*: Orissa. Has been a social worker; was member, Orissa State Council for Educ. of Women and Girls; Convener, Women's Deptt., Utkal P.C.C., since 1960; M.P., Rajya Sabha, 1962; Chairman, Children's Film Society, India; Vice-President: All India Women's Conference; Nritya Niketan, New Delhi; Member: Tourist Development Council; Advisory Board, Youth Congress, AICC; Business and Professional Women's Association, Delhi; Leader, Indian Delegation to: Film Festival, Moscow; First Afro-Asian International Film Festival, Tashkent, Oct. 1968; Dir., International Centre of Films for Children and Young People. *Address*: Prime Minister's Secretariat, New Delhi.

SATWALEKAR, Mahdev, G. D. Arts, Artist. *b.* Aug. 13, 1916. *Educ.*: Sir J. J. School of Arts, Bombay; Florence, Italy and Slade School, London. Has had several exhibitions in Bombay & Delhi; spent a year in East Africa painting that country, 1949; has painted portraits of the Pres. & Vice-Pres. of India and others; visited Europe, 1963 to study new art trends & latest methods of art trg.; held exhibitions in Berlin and Zurich; Pres., Federation of Art Instts. *Address*: "Hasman", 13, Nepean Sea Road, Bombay 6.

SAVANT, Parshuram Krishnarao, B.A., LL.B., Minister for Agriculture, Maharashtra State, since March 1967. *b.* June 8, 1908, at Mirya, Ratnagiri Dist.; *Educ.*: Ratnagiri and Bombay. Practised as a lawyer in Bombay till 1940; member, Bombay Municipal Corpn., 1939-46; Gen. Secy., Bombay Municipal Cong. Party; was a member, B.P.C.C. and its Gen. Secy., for some time; was member, Bombay State Road Transport Corpn., Bombay, the Labour Welfare Board, etc.; elected M.L.A., Bombay, 1946 & Maharashtra, 1962 & 1967; Parly. Secy., Bombay Govt., 1946-48; was connected with Rashtriya Mill Mazdoor Sangh, Bombay; INTUC and A.I.T.W.F. in various capacities; Adv., Workers' Delegation to the I.L.O., Geneva, 1954; is member: Exec. Cttee., M.P.C.C.; A.I.C.C.; Min. for: Agr., Maharashtra, 1960-62; Public Health, March-Nov. 1962; Dy. Leader, Cong. Leg. Party & Min. for Home, 1962-63; Min. for: Agriculture, 1963-65; Agriculture, Food & Civil Supplies, 1965-67. *Address*: Sachivalaya, Bombay 32.

SCHRECK, H.E. Mr. Wilhelm, M.A., Ambassador of Finland in India, since Oct. 10, 1968, (concurrently Bangkok, Colombo, Djakarta, Rangoon). *b.* April 12, 1913. Entered Finnish Foreign Service 1939; Attaché, Secy. in legations in Copenhagen, Berne; Counsellor, Embassies, Peking, Ankara; Deputy Director, Political Affairs, Min. for Foreign Aff., Helsinki 1961-64; Ambassador in Sofia 1964-68. *Address*: 43 A, Golf Links, New Delhi 3.

SEETHA DEVI, Kumari Vinjamuri, B.A., M.Litt., Musician; Asst. Producer of Folk Music, A.I.R., Hyderabad. *b.* Dec. 2, 1926; *Educ.*: P. R. Coll., Kakinada; Madras Univ.; did research in folk music. Was Music Lecturer in Stella Coll., Madras; gives public performances in lyric and folk music in the country & from A.I.R.; a play-back singer, has given folk tunes to pictures in

Telugu, Tamil and Hindi; has acted in Telugu and English dramas; gave lyric and folk music at : UNESCO Seminar, New Delhi, 1950 and other national functions. *Publications* : Her thesis for M.Litt., *Folk Music of Andhra Desa*, under publication by the Sangeet Natak Akademi, New Delhi. *Address* : 32, Rama Street, T. Nagar, Madras 17.

SEMA, Hokishe, Chief Minister, Nagaland, since Feb. 1969. *b.* March 6, 1921; *Educ.* : Mokocheung Govt. High School; Serampore Coll., West Bengal; St. Anthony Coll., Shillong; Gauhati Univ. Pres., Sema Students' Union, 1942-52; Sub-Inspector of Schools for Sema and Lotha Tribes, 1952-55; Political Asstt. to Dy. Commissioner, 1956-58; Asstt. Commissioner, 1958; Pres., Sema Public Organisation, 1958-60; Member, Select Cttee. and Drafting Cttee., Naga People's Convention; elected Member, Interim Body, Nagaland, 1961 from Sema area; elected M.L.A., Nagaland, 1963; Min. for Finance and P.W.D., Nagaland, 1963-67; Finance & Revenue, 1967-69. *Address*: Kohima.

SEN, Ashoka Kumar, B.A. (Hons.), Director-General, All India Radio, since June 7, 1968. *b.* Aug. 18, 1913; *Educ.* : Modern School, New Delhi; St. Stephen's Coll., Delhi; received training in the B.B.C. Was Director, Lucknow, Dacca and Calcutta Stations of the A.I.R.; Deputy Director-General, A.I.R., 1952; Regional Officer, Central Board of Film Censors, for six years, acted as Chairman for some time, represented A.I.R. at the Fourth General Assembly, Asian Broadcasting Union, Singapore, 1967. *Address* : 10, Lodi Estate, New Delhi 3.

SEN, Boshi (Basiswar), B.Sc. (Calcutta), Padma Bhushan (1957), Wattumull Award for Agriculture, 1962, Fellow, A.A.A.S., Ind. Bot. Soc., N.A.S.I., Scientist; Dir., Vivekananda Laboratory, Almora. *b.* Nov. 1887; *Educ.* : Calcutta Univ.; research with Sir J. C. Bose, Bose Instt., Calcutta; London Univ.; Strangeways Lab., Cambridge; Marine Biological Lab., Plymouth and New York Univ., New York. Joined J. C. Bose for research, 1911; founded the Vivekananda Laboratory in Calcutta for research in Gen. Physiology; joined the short course of Peaceful Uses of Atomic Energy at Oak Ridge, U.S.A., 1955 and attended the First Intn'l Cfee. in Geneva. *Publications* : Several scientific papers in Indian, British and American Journals. *Address* : Kundan House, Almora, U.P.

SEN, Mihir Kumar, B.Sc., LL.B., Barrister-at-Law, Associate Fellow, Br. Inter-Planetary Soc., Padma Shri, Padma Bhushan (1967), Swimmer. *b.* Nov. 16, 1930, at Purulia (West Bengal); *Educ.* : Ravenshaw Collegiate School and Ravenshaw Coll., Cuttack; called to the Bar from Lincoln's Inn, Nov. 1954. Set up practice at Calcutta High Court, May 1956; first ever Indian to attempt and swim the English Channel from Dover to Calais on 26th/27th Sept. 1958, with a time of 14 hours 45 minutes, then the fourth fastest in this direction; swim the Palk Strait, a distance of 22 miles between India and Ceylon in 25 hrs. 36 min., 5/6 April, 1966; swam the straits of Gibraltar on Aug. 24, 1966; first man to swim the Dardanelles Straits a distance of about 40 miles in 13 hours and 55 minutes, Sept. 12, 1966; swam the entire length of the straits of Bosphorus a distance of 16 miles without stopping, Sept. 21, 1966; completed his Panama Canal swim covering between 41 and 42 miles in 35½ hours, Oct. 31, 1966; founder, Explorers' Club of India, Calcutta. *Address*: 11, Government Place East, Calcutta 1.

SEN, Nikhil Ranjan, D.Sc. (Cal.), Dr. Phil. (Berlin), F.N.I., Scientist. *b.* May 23, 1894 at Dacca; *Educ.* : Govt. Schools at Dacca, Rajshahi; M.Sc. from Presidency Coll., Calcutta, 1916; Munich and Berlin

Univs. Appointed Post-graduate Lecturer in Applied Maths., Calcutta, 1917; studied in Germany and France, 1921-24; Pres., Calcutta Mathematical Society, 1935-57; member, National Cttee. for India, International Mathematical Union; Prof., Applied Maths., Calcutta Univ., 1922-59. *Publications* : Original contributions in Indian and foreign journals on cosmology and theory of turbulence. *Address* : 58A, Block D, New Alipore, Calcutta 53.

SEN, Prafulla Chandra, Ex-Chief Minister, West Bengal. *b.* 1897, Sahabad Dist., Bihar; *Educ.* : Sasharam, Buxar and Deoghar; B.Sc., the Scottish Church Coll., Calcutta. Joined the Non-co-op. Movement; was teacher, Hooghly Vidyamandir; took a leading part in the mass Civil Disobedience movements in 1930, 1932 and 1942 in Arambagh Sub-divn. of Hooghly Dist.; courted jail several times; worked for Dwarkeshwar flood relief in Arambagh, 1922; started Khadi centres in many villages of Arambagh and settled there; Congress M.L.A., West Bengal, from Khanakul Constituency, 1962-67; Chief Min., West Bengal, 1962-67; visited Japan, 1964. *Publications* : *Purpose & Perspective*; *New Dimensions*; *From there to New Horizons*. *Address* : Calcutta.

SEN, Samar, B.A. (Cal.), B.Sc. (Lond.), I.C.S., Kaiser-i-Hind (1943), Padma Shri (1957), Permanent Representative for India in U.N., since 1968. *b.* Aug. 10, 1914; *Educ.* : Bengal, London & Oxford. Entered I.C.S., 1938; held several posts in Bengal, 1939-46; Under-Secy., Dept. of Ext. Affairs, Govt. of India; Liaison Officer, Govt. of India to the U.N., New York, 1946-48; Dy. Secy., Min. of Ext. Affairs and Commonwealth Relations; Head of Chancery, High Commn. of India in London; Dy. Secy. (Ext. Affairs) in Charge of Ext. Publicity 1951-53; Consul-Gen. in Switzerland (Geneva) and Indian Rep. to the Intn'l Org. at Geneva, 1953-55; Chairman, Intn'l Commn., Laos, 1955-57; Joint Secy., Min. of Ext. Affairs, 1957-59; High Commr. in Australia and New Zealand, 1959-62; Amb. to Algeria, 1962-64; Amb. to Jordan, Kuwait & Lebanon & High Commissioner to Cyprus, 1964-66; High Commr. to Pakistan, 1966-68. *Address* : C/o Ministry of External Affairs, Govt. of India, New Delhi.

SEN, Sukumar, M.A., Ph.D., F.A.S., Chairman, Paribhasa Samsad, Govt. of West Bengal, J.P., Writer, member, Sahitya Akademi. *b.* 1900; *Educ.* : Burdwan and Calcutta. Author of several works on Sanskrit and Prakrit Philology and on history of Bengali literature and of Indian literature (from the Vedas upto Avahattha); was Khaira Prof. of Indian Linguistics and Phonetics, Calcutta Univ. *Publications* : *History of Brajabuli Literature*, 1935; *Comparative Grammar of Middle Indo-Aryan*, 1960; *History of Bengali Literature*, 1960; in Bengali: *History of Bengali Literature* (in five volumes), etc. *Address*: 403, Grand Trunk Road, Burdwan; 10, Raja Rajkissan Street, Calcutta 6.

SEN, Dr. Triguna, Dr. Ing. (Munich), M.I.E. (Ind.), Padma Bhushan (1965), Minister for Petroleum & Chemicals, and Metals and Mines, Govt. of India, since Feb. 14, 1969. *b.* Dec. 24, 1905, at Sylhet Dist.; *Educ.* : Calcutta and Germany; was a Deutsche Academy scholar, 1929-32. Courted jail in the freedom movement; externed from Bengal under Bengal Ordinance, 1932-39; Principal, Jadavpur Engg. Coll., 1944-55; Mayor of Calcutta, 1957-58; Rector, Jadavpur Univ., 1956-63; Vice-Chancellor, 1964-66; Director, State Bank of India/Reserve Bank of India; member, Education Commission and Senate, Calcutta and Roorkee Univs.; elected Pres., Assoc. of Principals of Technical Institutions (India), 1961 and 1962; Pres.: Institution of Engineers (India), 1963-64;

Inter-Univ Board of India, 1963; Vice-Chancellor, Banaras Hindu Univ., 1966; elected M.P. (Rajya Sabha). April 1967 and 1968; Min. for Education, Govt. of India, 1967-68. *Address*: New Delhi.

SEN-VARMA, Shyama Prasanna, M.A., LL.M. (Calcutta), Chief Election Commissioner of India, since Oct. 1, 1967. *b.* Feb. 1, 1909 at Barisal Dist. (Pakistan); *Educ.*: Calcutta Univ.; Gold medalist, 1st class in LL.M. Member, W. B. Judicial Service, 1942-51; served the Govt. of India, Min. of Law as: Dy. Draftsman, Addl. Draftsman, Jt. Secy. & Draftsman & Officer on Special Duty, 1951-60; Secy., Hindu Religious Endowments Commission, Mar.-July 1960; Indian delegate to the U.N. Human Rights Seminar on Freedom of Information, 1962; Special Secy. and Member, Law Commission, 1963-66; Secy., Govt. of India, Min. of Law, 1966-67. *Publications*: *The Law of Elections to Parliament and State Legislatures*. *Address*: Office: Chief Election Commissioner of India, Talkatora Road, New Delhi; *Residence*: 19, Safdarjang Road, New Delhi.

SESHADRI, Thiruvankata Rajendra, M.A. (Madras), Ph.D. (Manc.), D.Sc. (h.c.), F.R.I.C., F.A. Sc., F.N.I., F.R.S., Padma Bhushan (1963), member, German Academy of Natural Scientists, Scientist; Emeritus Professor, Chemistry Dept., Delhi Univ., since 1965. *b.* Feb. 3, 1900; *Educ.*: Srirangam; Tiruchirapalli; Presidency Coll., Madras; Univ. of Manchester; Univ. Coll., London; Medical Chemistry Laboratory, Graz, Austria; Deptt. of Medical Chemistry, Univ. of Edinburgh. Soil Chemist, Agrl. Research Instt., Coimbatore, 1930-33; Reader and later Prof. and Head of the Deptt. of Chemistry, Andhra Univ., 1933-49; Prof. and Head of the Chemistry Deptt., Delhi Univ., 1949-65. *Publications*: Over 800 original papers in Chemistry; a book on Chemistry of Vitamins & Hormones. *Address*: 8, Cavalry Lines, Delhi University, Delhi 7.

SETALVAD, Motilal Chimanlal, B.A., LL.B., Padma Vibhushan (26 January 1957); Hon. Doctor of Laws (B.H.U.) (1967). *b.* Nov. 12, 1884; *Educ.*: Elphinstone Coll., Bombay. Enrolled as Advocate, Bombay High Court, 1911; Advocate-General, Bombay, 1937-42; member: Kashmir Delegation to Security Council, 1948; Leader of the Delegation to U.N. General Assembly, 1949; Principal Rep. of India for the Kashmir question at the Security Council, 1952; Chairman, Law Commission, 1955-58; Pres., Bar Assoc. of India; Attorney-General of India, 1950-62; M.P. (Rajya Sabha), 1966. *Publications*: *Civil Liberties*; *Common Law in India*; *Law & Culture*; *Role of English Law in India*; *Secularism*; *The Indian Constitution*, 1950-65; *U. N. & World Peace*; *Bhulabhai Desai*. *Address*: 11, Safdarjang Road, New Delhi 11.

SETH, Darbari Shah, B.Sc. (Hons.), M.Sc. (Chem.) (Hons.) (Punjab & Cincinatti), Industrialist. *b.* Jan. 1, 1920. *Educ.*: Punjab Univ.; Univ. of Cincinatti, Ohio. Director: Tata Industries P. Ltd., Tata Chemicals Ltd., Tata Fison Industries Ltd., etc.; member: Board of Scientific & Industrial Research, C.S.I.R.; Exec. Council, Central Electrochemical Research Institute, Karaikudi; Exec. Council, National Chemical Laboratory, Poona; Development Council for Inorganic Chemical Industry, Govt., of India; Advisory Cttee. (Chemical Process & Allied Industries), Industrial Finance Corp. of India, New Delhi. *Address*: Office: Bombay House, Bruce St., Fort, Bombay 1; *Residence*: "Love-Dale", 50-F, Peddar Road, Bombay 26.

SETHI, Dr. Narendra Kumar, A.M. (Agra & Calcutta), M.B.A. (New York), Ph.D. (New York), M.R.A.S., M.B.H., Sahitya Ratna, Visharad, Dharma Ratna, Sahitya-charya, etc., writer, poet, prof., industrialist, management consultant and Assoc. Prof. of St. John's Management, Univ. Coll. of Business Admn., Jamaica, New York. *b.* July 12, 1935; *Educ.*: Mhow, Indore, Ujjain, Calcutta, London and New York. Broadcast talks and poetry over A.I.R., B.B.C. (Lond.), W.E.V.D. (New York), W.O.R. (New York), and W.B.A.I. (New York); Dir., India Centre, New York. *Publications*: *The World is Split* (1961); *Shabda Ki Chalna*; *The Deceit of Word* (1961); *Bibliography of Indian Management*; *Song Lines of a Day*. *Address*: Neminiwas, Tukoganj, Indore; St. John's Univ., Jamaica, New York.

SETHI, Prakash Chandra, B.A., LL.B., Minister of State for Finance, Govt. of India, since Feb. 14, 1969; *b.* Oct. 19, 1920; *Educ.*: Holkar Coll., Indore; Madhav Coll., Ujjain. Congress worker since 1942; member, A.I.C.C., 1951; was member, M.B. Prov. Cong. Exec. for many years; Pres., Ujjain Dist. Cong. thrice, 1951-59; Pres., Ujjain Municipality, 1960; M.P., Rajya Sabha, 1961; widely travelled abroad; Union Dy. Min. for Steel & Heavy Engg., 1962-64; Union Dy. Min. for Steel & Mines, 1964-66; Dy. Min. for Iron & Steel, Govt. of India, Jan. '66-Mar. '67; Union Min. for Steel, Mines & Metals, 1967-69. *Address*: Anup Bhavan, Madhav Nagar, Ujjain (M.P.); 7, Safdarjang, New Delhi.

SETHNA, Homi Nusserwanji, B.Sc. (Chemistry & Physics) (Bom.), B.Sc. (Tech.) (Chemical Engg.) (Bom.), M.S.E. (Chem. Engg.) (Michigan), Padma Shri (1959), Shanti Swarup Bhatnagar Memorial Award (1960), Padma Bhushan (1966), Dir., Engg. Group, Bhabha Atomic Research Centre; Director, Bhabha Atomic Research Centre, Trombay, also member, Atomic Energy Commn. in charge of Research and Devpt. *b.* Aug. 24, 1923; *Educ.*: St. Xavier's School and Coll., Bombay; Deptt. of Chemical Tech., Bombay Univ.; Univ. of Michigan (U.S.A.). Has been responsible for the designing and construction of the plutonium plant at Trombay; Project Mgr. (India) for the Canada India Reactor; member: Cttee. on Science & Technology, Cabinet Sec.ariat; Scientific Adv. Cttee., International Atomic Energy Agency; Dy. Secy.-General, Second U.N. Int'l Ctee. on the peaceful uses of atomic energy, Geneva, 1958. *Address*: Bhabha Atomic Research Centre, Old Yacht Club, Apollo Pier Road, Bombay 1.

SETHNA, Dr. Minocher Jehangirji, Ph.D. (Bom.), Philosopher, Jurist, Writer, Prof. and Counsel; Founder and Pres., Indian School of Synthetic Jurisprudence. *b.* Nov. 1, 1911; *Educ.*: Wilson Coll., Bombay Univ. and at Middle Temple, London. Is Prof., Bombay Univ. *Publications*: *Society and the Criminal*; *A Standard Text Book on Jurisprudence*; *A Standard Text Book on Indian Company Law*; *A Standard Text Book on Indian Mercantile Law*; *Civil Wrongs and Their Legal Remedies*; and some philosophical writings. *Address*: Sethna House, 251, Tardeo Road, Bombay.

SHAH, Mr. Justice Jayantilal Chhotalal, LL.B., Judge, Supreme Court, since Oct. 12, 1959. *b.* Jan. 22, 1906; *Educ.*: Gujarat Coll., and Elphinstone Coll., Bombay. Practised at Ahmedabad Dist. Court and at Bombay High Court; Advocate (O.S.); Chairman, Food Poisoning Enq. Commn. apptd. by the Govt. of India to investigate the causes of food poisoning in Kerala State; Judge, Bombay High Court till Oct. 1959; Chairman, Punjab Commn., 1966. *Address*: 11, Tuglak Road, New Delhi.

SHAH, K. K., B.A., LL.B., Minister for Health, Family Planning, Works, Housing and Urban Devpt., Govt. of India, since Feb. 14, 1969. *b.* Oct. 15, 1908 at Goregaon, Dist. Kolaba; *Educ.*: Gujarat Coll., S. P. Coll. & Govt. Law Coll., Poona. Was teacher, Poddar High School, Bombay; practised Law, 1934; courted jail in the National Movement; was General-Secy., B.P.C.C., for many years; its Vice-Pres. 1955-57, Pres. 1957-60; General Secy., AICC, 1962-63; was member, Bombay Municipal Corporation, for many years; M.L.A., Bombay, 1952; elected to the Rajya Sabha, 1960-66; has been closely connected with numerous educational, social and cultural organisations like the Senates of the Bombay and Baroda Univs., Bombay State Famine Relief Cttee., etc.; was Pres., Indo-Arab Society and the Brihad Bharatiya Samaj; Chairman, International Forum and the Textile Commission; Gen.-Secy., Central Citizens' Council, since 1965; has widely travelled in Europe, America and Japan; was leader, Indian delegation to the Conference for Economic Sanctions against South Africa, London, 1964; Minister for Information and Broadcasting, 1967-69. *Address*: Minister for Health & Family Planning, New Delhi.

SHAH, Kastoor Mal, Industrialist, Jaipur; Partner: Shah & Co., Jaipur; Shah Brothers, Jaipur & Bombay; Shah Agro-Chemicals, Jaipur & Shri Mahaveerji Gen. Export Co., Jaipur & Calcutta; Dir.: Shah Enggs. (P) Ltd., Jhotwara, Jaipur; Rajasthan Hotel Corpn. Ltd., Jaipur; Chairman: Federation of Assocs. of Small Industries, Rajasthan; Member: Federation of Assocs. SSI, India; Rajasthan State Sports Council, Jaipur; Rajasthan State Electricity Consultative Council, Jaipur; Board of Rajasthan Industrial Estates (allotment of sheds), Jaipur; Industrial Area Mfrs. Asscn., Jhotwara, Jaipur. *Address*: Shah Bldg., S. M. S. Highway, Jaipur 3.

SHAH, M. L., J.P., Prominent business man and industrialist of Calcutta; Commr. for the Port of Calcutta. *b.* Aug. 1894. Partner in the firm of Mg. Agents, for The Mohini Mills Ltd., Nos. 1 and 2 and Chimanlal Vadilal & Co.; was thrice Pres., I.C.C. and Bengal Millowners' Assn., Cal.; is Pres., Ind. Soc. for Quality Control; Dir. of many jute, tea and instts in Cal.; Ex-Pres., A.I.M.O.; Cttee. Member: F.I.C.C. & I.; Cotton Adv. Board; Ind. Cotton Mills Federation, etc. Pres., All India Textile Asscn. (Cal. Branch); member: Cotton Textile Export Promotion Council, Bombay; All-India Board of Tech. Studies in Textile Tech., New Delhi; Fin. Cttee. of the Ind. Red Cross Soc., West Bengal State Branch; member, Telephone Adv. Cttee., Calcutta. *Address*: 22, Canning Street, Calcutta.

SHAH, Manubhai Mansukhlal, B.Sc. (Hons.), B.Sc. (Tech.), Chairman, Gujarat I.D.C. since Nov. 7, 1967. *b.* Nov. 1, 1915; *Educ.*: Baroda Coll., Baroda; Instt. of Science, Bombay. Served in high tech. and admnive. posts in the Delhi Cloth & General Mills Co. for over 12 years; Min. for Fin., Govt. of Saurashtra, 1948-56; Union Min. of Industry, 1956-62; Union Min. of Intn'l Trade, 1962-64; Union Min. of Commerce, 1964-67. *Address*: 8, Teen Murty Lane, New Delhi 11; Ahmedabad 9.

SHAH, Kum. Meena, M.A., Arjuna Award (1963), a leading badminton player. *b.* Jan. 31, 1937; *Educ.*: Lucknow Univ. Diploma in German, 1962. Won All India Women's doubles title, 1956 and All India mixed doubles title 1958; Lucknow Univ. Gold Star as best sportswoman of the year, 1957; joined the Railways, 1959; a rep. of the Railways in All-India Nat. Championships and other major tournaments; ranked India's No.1, 1957; National Champion, 1959-65; Vice-Captain, Indian Uber Cup team which played Intn'l championships in England, Canada &

the U.S.A.; captained and won the Uber cup tournament defeating Hong Kong & Japan, 1962 and New Zealand, 1963; Indian Rlys. Award, 1963; Captain: Jt. Indian team which toured Europe and The U.A.R., 1965; Indian Uber Cup team, 1966. *Address*: No. 8, Kaiserbagh, Lucknow.

SHAH, Shantilal Ranchhoddas, B.A., (Hons.), Minister for Labour, Social Welfare, Prohibition and Excise, Rehabilitation and Housing, Gujarat, since March 1967. *b.* April 28, 1914; *Educ.*: Nadiad and Bhavnagar. Elected to the Ahmedabad Municipal Corpn., 1961; actively associated with the Gujarat State Finance Corpn., Central Prohibition Advisory Cttee., Minimum Wages Enquiry Cttee., Labour Advisory Cttee., etc.; has travelled extensively in many countries as a representative of labour; participated in the Duke of Edinburgh Confee. and attended the I.L.O. Conference; elected to the Gujarat Vidhan Sabha from the Rakhial (Ahmedabad) Constituency, 1967. *Address*: Sachivalaya, Ahmedabad 15.

SHAH, Shivjibhai Devshi, Writer. *b.* June 1, 1880; *Educ.*: Nalia, Kutch. At a young age got inspiration from Shrimad Rajchandra, Mahatma Gandhi's Guru and took up social work; was keenly interested in literary activities; founded Jain Students' Home, Palitana; started two magazines, *Ananda*, 1923 and *Madhukar*, 1924; established primary schools for boys and girls in Kutch; founded several institutions in Kutch, Bombay, Palitana, etc.; joined Home Rule League, 1938; had darshan of Shri Aurobindo, 1943; travelled extensively in India preaching the gospel of peace. *Publications*: Autobiography; about 105 books some of which are *Manorama*, *Jain History*, *Anand Rainvali*, *Dharma Sangrah*, etc. *Address*: Kooverji Devshi & Co. P. Ltd., Tardeo Road, Bombay 34.

SHAH, Virendrakumar Jeewanlal, M.P., Vice-Chairman & Managing Director, Mukand Iron & Steel Works Ltd., *b.* May 12, 1926 in Calcutta; *Educ.*: Hansraj Morarji Public School, Wardha Coll. of Commerce and Ruia Coll., Bombay. Director of several industrial organisations; travelled extensively in U.S.A., U.S.S.R., Europe and Japan; Founder Chairman, Steel Furnace Assoc. of India; Chairman, Steel Re-Rolling Mills' Assoc. of India; member: State Advisory Council of Industries, Maharashtra and Gujarat States; Iron & Steel Advisory Council, New Delhi; Cttees. of F.I.C.C. & I., New Delhi; Indian Merchants' Chamber, Bombay; Rotary Club of Bombay; M.P., Lok Sabha from Junagadh, 1967. *Address*: Mukand Iron & Steel Works Ltd., Kurla, Bombay 70 AS.

SHAKUNTALA DEVI, Mathematician. *b.* Nov. 4, 1936, in Bangalore. Numbers fascinated her even at an early age; at the age of five she was an expert of arm-long numbers, and worked out the most complicated arithmetical manipulations with lightning rapidity and scientific precision; is popularly known as the human calculating machine; gave demonstrations all over India; went to Europe and other parts of the world confounding experts and the makers of the computing machines; has toured and given demonstrations in all the countries of the six continents except Eastern Europe, Russia and China; has been acclaimed throughout as a remarkable lady; appeared on television shows many times in the U.S.A., the most famous being "The house party" television show of Art Linkletter and Art Baker's "You asked for it". *Address*: 44 A/2, Ironside Road, Calcutta 19.

SHANKAR, Ravi, Presidential Award (1962), Padma Bhushan (1967), Musician. *b.* April 7, 1920; *Educ.*: Learned music & dancing. Began his career in the company of

Uday Shankar; travelled extensively in India & abroad; later devoted himself to sitar with Ustad Allaadin Khan; Dir. of Music, A.I.R. 1949-55; participated in the 10th Anniversary celebration of the U.N. & UNESCO's music festival in Paris, 1958; first Indian musician to write music for foreign films; & gave several concerts, in U.S., 1961 & 1964; wrote & conducted orchestral music for a ballet set to Nehru's *Discovery of India*; opened the Kinnara School of Music in Los Angeles, May 1967; won coveted Silver Bear for score and Venice Festival Award. *Publications*: *Book of Music Memory*. *Address*: 6, Pavlova, Little Gibbs Road, Bombay 6.

SHANMUGAM, P. U., Minister for Labour, Govt. of Tamil Nadu, since Feb. 1969. *b.* Aug. 15, 1924; *Educ.*: Municipal High School, Tiruvannamallai. An active Member of the D.M.K. Party for several years; was Chairman, Municipal Council, Tiruvannamalai; courted jail in the D.M.K. movement; was Member, State Assembly, 1957-62; elected M.L.C., Tamil Nadu from the North Arcot-South Arcot Teachers' Constituency in April 1968. *Address*: 14, First Crescent Park Road, Gandhi Nagar, Adyar, Madras-20.

SHANTARAM, V., leading Film Producer, Dir. & Actor. *b.* Nov. 18, 1901; *Educ.*: Kolhapur. Associated with film industry from 1920; founder member, Prabhat Film Co., Poona; recipient of National & Intn'l Awards for best picture, best direction, best techniques, etc.; was Chief Producer, Govt. Films Divn.; was member, Censor Board, Film Adv. Board, etc.; his film "Two Eyes Twelve Hands" won the "Gold Bear" of the Intn'l Film Festival, Berlin, The Hollywood Foreign Press' Samuel Goldwyn Award for the "Best Picture" and a plaque by the Catholic Film Bureau, Brussels for the "best human document." *Address*: Rajkamal Kalamandir (Pvt.) Ltd., Parel, Bombay 12.

SHANTILAL, Mangaldas, B.A. (Bom.), Chairman, Gujarat Steel Tubes Ltd. *b.* 1901. Chairman, New Jehangir Vakil Mills Co., Ltd., Bhavnagar; Dir. of many other concerns; Pres., F.I.C.C. & I., New Delhi, 1955-56; Pres., Ahmedabad Millowners' Assoc., 1946; Member, Senate of the Bombay Univ., 1928-43; attended the Textile Cttee. meetings of the Intn'l Labour Org. at Brussels, 1946 and at Geneva, 1948 as Employers' rep.; takes interest in social work and educ. *Address*: Near Police Lines, Shah-i-bag, Ahmedabad.

SHARMA, Benudhar, Sahitya Akademi Award (1960), Assamese Writer. *b.* Nov. 15, 1894, at Charing, Sibsagar, Assam; *Educ.*: Charing; Sibsagar Govt. High School, Bangabasi Coll., Calcutta. Joined Non-Coop. Movement, 1920; courted imprisonment; left Congress, 1937; is a historian, biographer and short story writer; has widely travelled in India. *Publications*: Assamese: *A Short Sketch of Khan Abdul Gaffar Khan*; *Rangpata*; *Gangagovind Phukan*; *Maniram Dewan*; *Durvin*; *Bangamua Noujattrar Apadiya Kahini*; *Kangrecar Kanciyali Rodat* (1959); *History of the Dakshinpat Sattra* (1967), *Latumani*; *Dunari*; *Arghyavali*. *Address*: Suagpur, Rehabari, Gauhati 8.

SHARMA, Bhagwat Dayal, M.A., Ex-Chief Minister, Haryana State, 1966-67. *b.* at Beri, Dt. Rohtak, Jan. 26, 1917; *Educ.*: Schooling at Beri; M.A. degree from Banaras Hindu Univ. Entered politics while a student; courted jail in the individual satyagraha, 1941 and in the Quit India Movement, 1942-46; joined as a teacher, Birla High School, Pilani, 1946; organised labour union at Jagadhari; elected Pres., the Punjab, Himachal Pradesh and Jammu & Kashmir regional unit of the I.N.T.U.C., 1955; toured abroad four times to study the

trade union movement; was elected to the Punjab Vidhan Sabha on Congress ticket, 1962; Minister, Punjab, 1962; elected Pres., Punjab P.C.C., 1963; became Pres., Haryana P.C.C., Aug. 1966. *Address*: Chandigarh.

SHARMA, Dr. B. N. K., M.A., Ph.D., 'Vidyabhushana' (1940); 'Shastranidhi' (1964); Sahitya Akademi Award for Research in Sanskrit, 1963; D. Litt., B'bay Univ. (1968); Sanskrit Scholar; Prof. & Head of the Depts. of Sanskrit & Ardhmagadhi, Ruparel Coll., Bombay, since 1953. *b.* June 9, 1909; *Educ.*: Kumbakonam & Presidency Coll., Madras. Lecturer in Sanskrit, Annamalai Univ., 1931-41; Principal, Sanskrit Colls., Tiruvaiyaru, 1941-49 and Udipi, 1950-51; Visveshvarananda Vedic Research Instt., Punjab, 1951; Principal, Kanara Coll., Kumta, 1952-53; Prof., K. E. Board's Coll., Dharwar, 1953; Editor, *Encyclopaedia of Indian Philosophies*; Ph.D. Guide in Sanskrit, Univ. of Bombay. *Publications*: Nearly 100 papers on many aspects of Sanskrit studies published in Oriental Journals from 1930 to date; *Catusutri Bhashya*; *Svatantraadvaita*; *A History of Dvaita School of Vedanta & Its Literature*, Volume I & II, *Philosophy of Sri Madhva-charya*. *Address*: 4/2, Shah Building, Bhagat Gully, Bombay 16.

SHARMA, Ram Bilas, M.A., Ph.D. (Lucknow), Hindi writer; Prof. and Head of the Deptt. of English, B. R. Coll., Agra, since 1943. *b.* Jan. 16, 1912, in Unnao Dist., U.P.; *Educ.*: M.A. in English Literature, 1934 and Doctorate, Lucknow Univ., 1940. Lecturer in English, Lucknow Univ., 1938-43. *Publications*: English: *Introduction to English Romantic Poetry*; *Studies in Nineteenth Century English Poetry*; Hindi: *Several Critical Studies — Premchand aur unka Yuga*; *Bharatendu-Yuga*; *Nirala*; *San Sattavan Ki Rajyakraanti*; *Bhasha aur Samaj*, etc.; *Poems: Roopa-Taranga*. *Address*: 30, New Rajmandi, Agra.

SHASTRI, Pandit Hiralal, Sahitya Shastri, B.A., Pres., Banasthali Vidyapith. *b.* Nov. 24, 1899; *Educ.*: Maharaja's Coll., Jaipur. Secy., Foreign and Home Dept. Council of State, Jaipur; founded Jiwanikutir for village uplift: following the death of his daughter, founded Banasthali Vidyapith, national instt. for girls' educ.; Matri Mandir, Jobner for Welfare of women and children; Navajiwan Kutir, Jaipur, for gen. educ. of the people; "Lokvani," Hindi Daily; Gen. Secy. and Pres., Jaipur Rajya Prajamandal; Gen. Secy., All India States Peoples' Cfce.; member: Constituent Assembly of India; Provisional Parliament of India; first popular Chief Min. Jaipur State and then Rajasthan State; M.P., Lok Sabha from Sawai-Madhupur, 1957-62. *Address*: Banasthali Vidyapith, Rajasthan.

SHASTRI, Smt. Ratan, Social Worker; Upadhyaksha, Banasthali Vidyapith (Rajasthan); member, National Council for Women's Education; founded, together with her husband, Banasthali Vidyapith, national inst. for women's educ., following the death of their daughter, 1935; Regional Rep., Kasturba Memorial Trust; member: State Social Welfare Board; Jiwan Kutir, Navajiwan Kutir, and Matri Mandir Mahila Vidyalaya Socys.; State Educl., Adv. Board, State Educl. Grants Cttee., Zonal Cttee., Gandhi Memorial Trust; the first person in Rajasthan to be awarded Padma Shri for distinguished services in the field of educ., 1955. *Address*: P.O. Banasthali Vidyapith (Rajasthan).

SHELAT, Mr. Justice J. M., M.A. (Lond.), Bar-at-law, Judge, Supreme Court of India, since March 1966. *b.* July 16, 1908; *Educ.*: Jubilee Inst., Umreth (Dist. Kaira); Elphinstone Coll., Bombay; London Univ.; called to the Bar (Inner Temple, London), 1933. Practised in

Bombay High Court, 1933-48; Judge, City Civil Court and Addl. Sessions Judge, Greater Bombay, 1948-54; Principal Judge and Sessions Judge, 1954-57; Addl. Judge, Bombay High Court, Jan.-Nov. 1957; Judge, 1957-60; Judge, Gujarat High Court, 1960-63; Chief Justice, 1963-66. *Publications*: *Akbar*; *Trial of Gandhi*; *The Spirit of the Constitution*; a contributor to *Munshi, His Art and Work*. *Address*: 2, Motilal Nehru Marg, New Delhi.

SHINDE, Annasahib Pandurang, LL.B., Minister of State for Food, Agriculture, Community Devpt. & Co-op., Govt. of India, since March 1967. *b.* Jan. 21, 1922 at Nasik; *Educ.*: Law Colls., Poona and Ahmedabad. Courted jail in freedom movement, 1942-44; legal practitioner till May 1962; M.P., Lok Sabha, since 1962; member, Mg. Cttee.: All India Co-op. Sugar Factories Federation, New Delhi; Maharashtra Co-op. Union; is connected with Sir David Sassoon Trust; Chairman, Federation of Coop. Sugar Factories, Maharashtra State, 1960-62; Parly. Secy., Union Min. of: Food & Agr., 1962-64; Community Devpt. & Co-op., 1964-65; Dy. Min. for Food & Agri., Comm. Devpt. & Co-op., 1966-67; member, Parly. Goodwill Mission to S.E., Asia on Indo-Pak conflict; Leader, Indian delegation to: Third session, Afro-Asian Rural Reconstruction Orgn., Seoul, South Korea; 9th F.A.O. Regional Cfee. for Asia and the Far East at Bangkok. *Address*: 1, Motilal Nehru Marg, New Delhi.

SHIRWADKAR, V. V. alias Kusumagraja, B.A. (Bom.), Marathi Author and Editor; Managing Editor, *Kumar* (monthly) for children, *b.* Feb. 27, 1912; *Educ.*: Nasik; Bombay. Worked on the editorial staff of several Marathi journals in Bombay and Poona; Pres., Maharashtra Sahitya Sammelan, Madgaon, Goa, 1964. *Publications*: Published the first book of poetry, 1933; and collection of poems 'VISHAKHA', 1944; several books of poetry, drama and fiction, noteworthy among them being *Poetry*: *Kinara*, *Samidha*, *Marathi Mati*, *Swagat*, *Himarsha*; *Novels*: *Janhavi*, *Vaishnav*; *Stories*: *Satariche bol*; *Plays*: *Dusara Peshawa*, *Kounteya*, *Doorache Dive*, *Yayati-Devayani*; *Adaptations*: *Vaijayanti*; *Translations*: Kalidas's *Meghdoot* and Shakespeare's *Macbeth* and *Othello*; edits school text books. *Address*: Shivaji Road, Nasik.

SHIVESHWARKAR, Sadanand Waman, B.Sc. (Bom.), M.A. (Cantab.), M.B.E. (1945), I.C.S., Director-General (Vigilance), Railway Board. *b.* March 1, 1912; *Educ.*: Sawantwadi; Fergusson Coll., Poona; Sydney Sussex Coll., Cambridge; Mathematical Tripos at Cambridge Univ. and declared star wrangler, 1932-34; Rayleigh Prize and Sheepshanks Exhibition, Cambridge Univ.; Fellow, Royal Astronomical Soc. of London. Entered I.C.S., 1935; held many posts in the State and Central Govts as Under Secy., Dy. Secy., Textile Commr. etc., 1935-47; Adm. or, Junagadh State 1947-49; Chief Secy.: Hyderabad Govt., till 1951; Rajasthan Govt., 1951-53; Excise Commr., U.P., 1953-54; Commr., Banaras Dn., 1954-57; Commr., Lucknow Dn., 1957-60; Chief Settlement Commr. and Custodian Gen. of Evacuee Properties, 1960-62; Jt. Secy., Min. of Food & Agr., 1962-64. *Publications*: *Stellar Dynamic and Galactic Rotation* (1943). *Address*: Rail Bhavan, New Delhi.

SHRIMALI, Dr. Kalu Lal, M.A. (Philosophy and Psychology), Ph.D., M.P., Vice-Chancellor, Banaras Hindu Univ., since Sept. 1969. *b.* Dec. 30, 1909; *Educ.*: Banaras Hindu Univ.; Calcutta Univ.; Columbia Univ., New York. Headmaster, Vidya Bhawan, 1931-42; Principal, Vidya Bhawan Teachers' Coll., 1942-54; member, Secondary Educ. Commn., Indian Govt., 1953; Parly. Secy. to

the Union Min. for Educ.; Union Dy. Min. for Educ., 1955-57 and Min. of State in the Union Min. of Educ. and Scientific Research, 1957-58; Union Min. of Educ., 1958-63; resigned under the Kamaraj Plan, Aug. 1963; Vice-Chancellor, Mysore Univ., 1964-69. *Publications*: *The Wardha Scheme*; *Adventures in Education*; *Education in Changing India*; Hindi: *Buchon Ki Kuoh Samasyayen*, *Shiksha Aur Bhartiye Loktantra*. *Address*: Banaras Hindu University, Varanasi 5.

SHRIVASTAVA, Nirmal Chandra, B.Sc., I.C.S., Secy., Govt. of India, Deptt. of Mines & Metals, Min. of Petroleum & Chemicals and Mines & Metals, since Feb. 1969. *b.* Sept. 1, 1913; *Educ.*: Patwardhan High School and Nagpur Univ.; School of Oriental Studies, London. Joined I.C.S., 1936; Posts held: Asstt. Commr. and Under Secy., C.P. and Berar Govt. upto Feb. 1942; Under Secy., Dy. Secy. and Dir.-Gen. of Resettlement and Employment, Union Dept. of Labour till Aug. 1947; Dy. Secy., Chief Settlement Commr., Chief Claims Commr. and Jt. Secy., Union Min. of Rehab. upto 1957; Gen. Mgr., Bhilai Steel Plant, 1957-61; Adv. (Industry and Minerals), Plng., Commn., 1961-63; Secy., Min. of Mines & Metals, 1963-69. *Address*: 34, Prithviraj Road, New Delhi-11.

SHROFF, Kaikhushru Ruttonji P., Padma Bhushan (1967), Ex-Pres., Stock Exchange, Bombay. *b.* July 28, 1878; *Educ.*: Bharda New High School and Byramjee Jeejeebhoy Coll. of Commerce. Pres., Stock Exchange, Bombay, May 1923-March 1966; Patron, April 1966; recipient of Silver Jubilee and Coronation Medals. *Publications*: *Elementary Arithmetic and Algebra for P.E. Students*. *Address*: Sunshine, Churchgate Reclamation, Bombay.

SHUKLA, Shyama Charan, B.Sc. (Tech.) (Banaras), LL.B. (Nagpur), Chief Minister, Madhya Pradesh, since April 1969. *b.* Feb. 27, 1925 at Raipur; *Educ.*: Raipur, Banaras and Nagpur. Joint Secy., Raipur D.C.C., 1949-58; Vice-Pres., 1958-64; Vice-Pres., M.P.C.C., 1964; member, A.I.C.C., since 1957; M. P. Vidhan Sabha, 1957, 1962 and 1967 General Elections; Chief Whip, Congress Leg. Party, M.P. Vidhan Sabha, 1963; Min. for Irrigation, 1967; Chief Editor and Founder, 'Mahakoshal', a Hindi daily of Nagpur; travelled in U.K., France, Italy, Iran, Norway, Sweden, Denmark and a few other countries. *Address*: Chief Minister's Residence, Shamla Road, Bhopal.

SHUKLA, Vidya Charan, Minister of State, Home Ministry, Govt. of India, since March 1967. *b.* in Raipur, Aug. 2, 1929; *Educ.*: Morris Coll. & Univ. Coll. of Law, Nagpur. M.P., Mahasamund Const. of Raipur Dist. since 1957; rep. the Indian Parly. Group in the meeting of the Commonwealth Parly. Assoc., Singapore, 1964; Indian Rep. at the Afro-Asian Summit Cttee. at Algiers, 1965; was member, Estimates Cttee., 1960-62 and Stg. Cttee. on Administrative Reforms; Dy. Min. for Parly. Affairs & Communications, Jan.-Feb. 1966; member, Cttee. on Media Units of the Min. of I. & B.; has often visited countries of Africa, America & Europe; Dy. Min. for Home Affairs, 1966-67. *Address*: Ministry of Home Affairs, New Delhi.

SIDDIQI, Muhammad Zubayr, H.A. (Punjab), M.A. B.L. (Patna), Ph.D. (Cambridge), first Sir Asutosh Prof. of Islamic Culture, Calcutta Univ., 1929-1961. *b.* 1896; *Educ.*: Madrasa Aliya of Rampur (U.P.); Oriental Coll., Lahore; Bihar National Coll., Patna; King's Coll., Cambridge. Member, Senate and Syndicate, Calcutta Univ., 15 years; Fellow and elected Vice-Pres., Asiatic Soc. of Cal., six years; Hon. member, Islamic Research Soc. of

Bombay; Pres., Arabic, Persian, Urdu and Islamic Culture Sect., All India Oriental Cfses., Nagpur, Hyderabad and Darbhanga; awarded certificate and robe of honour by the President of India, 1958. *Publications*: Critical Edition of *Firdausul-Hikmat* of al-Tabari, Berlin 1928 and *Tarikh Nama-i-Harat* of Sayfi Cal. 1944; *All-Sayrul-Hathith fi Tadwinil-Hadith*; *Studies in Arabic and Persian*; *Hadith Literature, its Origin, Development and Special Features*, 1961. *Address*: P. 6, Suhrawardy Avenue, Calcutta 17.

SIKRI, Mr. Justice Sarv Mittra, Bar-at-Law, Judge, Supreme Court of India since 1964. *b.* April 26, 1908; *Educ.*: B.A. (Cantab), Bar-at-Law (Lincoln's Inn), Started practice, Lahore High court, 1930; Asstt. Advocate-Gen., Punjab, 1949; Advocate-Gen., Punjab, 1951-64; Alternate Rep. of the U.N. Cttee. on Codification and Devpt. of Intn'l Law, 1947; Legal Adv., Min. of Irrigation and Power, 1949; Member: Intn'l Law Assoc.; Cttee. on Intn'l Rivers, 1955; Indian Law Commn., 1955-58; Delegate to World Peace Through Law Cfses., Tokyo, 1961; Athens 1963; Accra Assembly, Accra, Ghana, 1962; Member, Exec. Cttee. and Governing Council, Indian Law Instt., Indian Commn. of Jurists; Indian Branch of Intn'l Law Assoc. *Address*: 2, Teen Murti Marg, New Delhi.

SINGH, Avtar, B.A., High Commissioner for India in Kenya. *b.* Oct. 18, 1921; *Educ.*: Punjab Univ. Commissioned in the Indian Army, 1942; saw active service in Burma and received a Military Cross at Meiktila, 1945; served in the Indian Embassy in Egypt & Legations in Lebanon, Jordan & Syria, 1948-51; External Affairs Min., 1951-52; 1956-58; Permanent Mission of India to the U. N., New York, 1952-55; Political Adviser, Indian Delegation to the Intl. Commsn. for Supervision & Control in Viet Nam, 1955-56; Counsellor, Indian Embassy, Bonn, 1958-61; Chairman, Intn'l. Commsn. for Supervision & Control in Laos with personal rank of Amb., 1961-63; Pol. Officer of India in Sikkim & Bhutan, 1964-66; Amb. to Denmark 1966-67; High Commissioner in Mauritius 1967-69. *Address*: C/o External Affairs Ministry, New Delhi.

SINGH, Balbir, B.A., Padma Shri (1957), leading Hockey Player; Jt. Director, Sports and Youth Programme, Directorate of Education, Punjab; President, Cricket Association, Chandigarh. *b.* Oct. 10, 1924; *Educ.*: Dev Samaj High School, Moga (Punjab); Khalsa Coll., Amritsar, Punjab Univ. Entered Class Hockey, 1942; captained Punjab Univ. Eleven, 1945, captained Punjab State Eleven, 1949; represented India in the: World Olympics at London, 1948, won gold medal; all National and International matches, 1947-60; Olympic Games at Helsinki, 1952, won Gold Medal; captained Indian Olympic team to Melbourne Olympic Games, 1956, won Gold Medal; captained the Indian Hockey Team for the Asian Games at Tokyo, May, 1958; member, I.H.F. Selection Cttee., 1959-64. *Address*: Olympia, 1534, Sector No. 18-D, Chandigarh.

SINGH, Charan, M.A., LL.B., Ex-Chief Minister, U.P. *b.* Dec. 1902, Noorpur, Meerut Dist.; *Educ.*: Agra Univ. Practised as a civil Lawyer at Ghaziabad, 1928-39; joined Congress, 1929; Vice-Chairman, Meerut Dist. Board, 1932-35; elected M.L.A., U.P. 1937, '46 and since 1952, from Chhaprauli; courted jail in freedom movement; Gen. Secy. and Pres., Meerut DCC, 1939-46; Genl. Secy., U.P. Leg. Cong. Party, 1948-56; Parli. Secy., U.P. Min. 1946-51; Min. for: Justice and Information 1951; Agri.

Animal Husbandry and Information, 1951-52; Rev. and Agri. 1952-54; Rev. and Transport, 1955-57; Min. for Rev. 1957-58; Rev., Irrigation and Power, 1958-59; Home and Agri., 1960-62; Agri., 1962-63; Forest and Agri. 1963-65; Forest and L.S.G., 1966-67; leader Samyukta Vidhayak Dal, 1967-68; introduced many land reforms in the State; Chief Minister, U. P., 1967-68. *Publications*: *Abolition of Zamindari, Cooperative Farming X-rayed and India's Poverty and its Solution* etc. *Address*: Lucknow.

SINGH, Dinesh, B.A., Min. for External Affairs, Govt. of India, since Feb. 1969. *b.* July 19, 1925 at Kalakankar, U. P.; *Educ.*: Doon School, Dehra Dun; Colvin Coll., Lucknow Univ. Private Secy. to the Prime Minister; Secy., High Commission of India in London & Embassy of India, Paris; Mem., Estimates Cttee. of 2nd Lok Shabha; Gen. Secy., Indian Council for Africa; Indian delegate to: F.A.O. Regional Marketing Confee., 1959; U.N. General Assembly, 1960; E.C.A.F.E., 1961; National Tourist Development Council, 1960-61; Tourist Advisory Cttee. (Northern Zones); travelled extensively in Europe, U.S.A. and Africa; attended the All African People's Conference at Tunis, 1960 and Cairo, 1961; Deputy Min. for External Affairs till Jan. 1966; Min. of State for External Affairs, 1966-67; Min. of Commerce, 1967-69; elected Pres., U.N.C.T.A.D. Conference, Feb. 1968. *Address*: Rajbhavan, Kalakankar, Dt. Pratapgarh (U.P.); Ministry of External Affairs, New Delhi.

SINGH, Govind Narayan, M.A., LL.B., Ex-Chief Minister, Madhya Pradesh, *b.* July 25, 1920 at Rampur Baghelan, Dt. Satna; *Educ.*: Rewa; Banaras Hindu Univ. Selected for I.A.S., but resigned; Lawyer at Satna, 1948-58; elected to the V.P. Assembly, 1952; Pres., Satna D.C.C. for four years; Gen. Secy., V.P.C.C., 1953-57; M.L.A., M.P. since 1957; headed the State Congress Planning Cttee.; member: P.C.C. for 29 years; A.I.C.C. for six years; State Congress Election Board, 1964-65; Dy. Minister: Public Health, Local Bodies and Social Welfare, 1960-62; Home & Planning, 1962-63; Minister for Local Govt. 1963-67; left Congress, 1967; Chief Min., M.P. 1967-68. *Publications*: Contributed articles to leading magazines as student and lecturer. *Address*: Civil Lines, Bhopal.

SINGH, Gur Bakhsh, B.Sc., C.E. (1922), Punjabi Writer. *b.* April 26, 1895; *Educ.*: F.C. Coll., Lahore; Thomason Coll., Roorkee; Michigan Univ., Ann Arbor (U.S.A.). During the Great War, attached with Royal Engrs.; Rly. Engr., 1925-32; Power Farming, 1932-37; travelled extensively in Europe, Russia, China, U.S.A., Canada, Iraq and Persia; Pres., Sahitya Akademi (Pb.); member, Gen. Council, Sahitya Akademi, India; Vice-Pres., All-India Peace Council. *Publications*: Autobiography; *Shabnam*; *Adjusted & Balanced Life*; *Unmarried Mother*; *The Strange & Alone*, etc.: *Poem of Life*, etc. (In Punjabi). *Address*: Editor, *Preet Lari*, Preet Nagar, Dist. Amritsar.

SINGH, Sardar Gurnam, B.A., Barrister-at-Law; Chief Minister, Punjab State, since Feb. 1969. *b.* Feb. 25, 1899; *Educ.*: Forman Christian College, Lahore; called to the bar, 1928. Started legal Practice at Lyallpur; elected Pres., Bar Assoc., 1946 and 1947; started practice at the Punjab High Court, Simla, 1949; Judge: PEPSU High Court, 1950-56; the Punjab High Court, 1956-59; entered politics, 1962; successfully contested election to Punjab Assembly on Akali ticket and elected leader, Akali Party in the Punjab Assembly; played a key role in the formation of the Punjabi Suba; re-elected M.L.A., Punjab 1967 & 1969; Chief Min., 1967-68; *Address*: H. No. 286, Sector 10-A, Chandigarh.

SINGH, Brig. Gyan, Padma Shri (1961), Leader, first Indian Expedition to Mount Everest, March-Jun, 1960. *b.* April 12, 1918 at Ramgarh, Ludhiana Dist.; *Educ.*: Lucknow. Served in the Kashmir operations including the Zoji La operation; climbed extensively in connection with reconnaissance duties; held appts. as Commandant, Winter Warfare School, Asstt. Commandant, School of Artillery, Commandant of Regt. of Artillery and Asstt. Adjutant and Quarter Master Gen. in a divn.; Principal, H.M.I., Darjeeling, 1958-62; attended Intn'l. Mountaineers' Meets, Chamonix (France) and Rosenlani (Switzerland); visited mountaineering instts. in Austria, Germany, Belgium and England; promoted Brigadier, Feb. 1960; retd. from Army, Aug. 1964; Principal, Nehru Instt. of Mountaineering, Uttarkashi, U.P., 1965-68. *Publications*: *Lure of Everest* (The story of a first Indian Attempt on Everest in 1960). *Address*: Sagarmatha Farms, Fazilpur, Meerut.

SINGH, Maj.-Gen. Harkirat, B.A. (Punjab), M.A. (Cantab.), M.I.E., M.I. Mech. E., M.I.E.E., Chairman: Hindustan Housing Factory; Bharat Earth Movers Ltd.; Dir., Heavy Engg. Corpn. *b.* April 7, 1911; *Educ.*: Govt. Coll., Lahore; Royal Military Academy, Woolwich; Christ's Coll., Cambridge; Mech. Sc.s. Tripos. Commsnd., Feb. 2. 1933; served in several places till he became Commander, Royal Engrs., U.P. Area, Lucknow, 1946; promoted Brigadier & posted as Chief Engr., Southern Command, Poona, Dec. 1947; Chief Engr., Western Command, 1950-52; Commander of an Infantry Brigade, 1952-54; Commandant, Coll. of Military Engg., 1955-56; promoted Major-Gen. and apptd. Dir. of Electrical and Mech. Engg., 1957-59; Engr.-in-Chief, Army H.Q. 1960-65; Adviser (Construction & Urban Devptt.), Planning Commission 1965-68; Pres., Instt. of Engrs. (India), 1960-62; Work Study 1964-66; Chairman, Central Road Research Instt. 1964-66. *Address*: Heavy Engineering Corporation, Ranchi.

SINGH, Sardar Hukam, LL.B., LL.D. (Honoris Causa) (Punjab) (1967), Governor of Rajasthan, since April 16, 1967. *b.* Aug. 30, 1895 at Montgomery; *Educ.*: Khalsa Coll., Amritsar; Law Coll., Lahore. Was a prominent member of the Shiromani Akali Dal; courted jail in the Gurudwara Prabhandhak Reform movement, 1924-25; member, Shiromani Gurudwara Prabhandhak Cttee., 1926-41; Judge, Kapurthala High Court, 1947-48; was member: Constituent Assembly & Prov. Parliament; Lok Sabha & Estimates Cttee., 1952-1967; Chairman, Confce. of Presiding Officers of Leg. Bodies in India; Pres., Indian Parly. Group; member: Commonwealth Parly. Confce., Delhi, 1957; Australia, 1959; London, 1961; Dy. Speaker, Lok Sabha, 1956-62; Leader: Parly. delegation to USSR and Mongolia, 1962; Commonwealth Parly. Confce. U.S.A. 1963; West Germany and U.K., 1964; Phillippines, 1965; visited Japan, Singapore, Burma, Poland, Canada, U.S.S.R., U.K. and various European countries; Speaker, Lok Sabha, 1962-67; Founder: *Spokesman* (English Weekly). *Publications*: *Sikh case*; *The Problem of the Sikhs*; *Russia as I saw It*; *Russia Today*. *Address*: Raj Bhawan, Jaipur.

SINGH, Iqbal, Dy. Min., Deptt. of Parliamentary Affairs, Shipping & Transport, Min. of Transport, Govt. of India, since Feb. 14, 1969. *b.* Oct. 27, 1923, at Killianwali, Punjab; *Educ.*: M.B. High School, Abohar; Sikh National Coll., Lahore. First Pres., Punjab Students' Congress, 1944-46; member, Working Cttee., All India Students' Cong.; member, Shiromani Gurdwara Prabhandhak Cttee.; M.P., Lok Sabha, since 1952; member A.I.C.C. since 1954; Dy. Min. for: Petroleum & Chemicals, Govt. of India,

1966-67; Works, Housing & Supply, 1967-69. *Address*: 15, Ashoka Road, New Delhi.

SINGH, J. J., Secretary, India-Pakistan Conciliation Group; Ex-Pres., India League of America, *b.* Oct. 5, 1897 at Rawalpindi. Joined N. C. Movement, 1919; elected to: Punjab P.C.C., 1920; A.I.C.C., 1921; entered business in London, 1924; elected Vice-Pres., India Merchants' Assoc., Wembley-London; started business on Indian textiles in America, 1926; Founder & 1st Pres., India Chamber of Commerce of America Inc., 1938; elected Treasurer, India League of America, 1939; its elected Pres., 1939-59; devoted all his energies to winning over American support to the cause of India's freedom; successfully worked with the help of Americans for the passing of the India Immigration Bill in 1946; successfully devoted India League's efforts to create better understanding between India and America; was the first Indian to be eve. profiled in the "New Yorker"; Chairman, "Committee for a million signatures to ban nuclear tests", 1961; was member, Goodwill Mission to Pakistan, 1964. *Address*: 101, Friends Colony, New Delhi.

SINGH, Jagjit, M.A., F.S.S., D.Sc., (Honoris Causa) (Roorkee Univ.), Kalinga Award (1963), Chairman, Indian Drugs & Pharmaceuticals Ltd. since July '69; was General Manager, South Eastern Railway. *b.* May 15, 1912, at Amritsar, *Educ.*: Hindu Sabha High School and Khalsa Coll., Amritsar; Govt. Coll., Lahore. Represented India at the Third International Fed. of Operational Research Societies Cfce., Oslo, July 1963; Pres., Operational Research Society of India; member: Institute of Mathematical Statistics, North Carolina, U.S.A.; Indian Statistical Institute, Calcutta; Chairman, Editorial Board, C.S.I.R.'s monthly magazine, Science Reporter; Adviser on Operations Research to the Govt. of India, Min. of Home Affairs, Dept. of Adm. Reforms, Sept. 1965; took to science popularisation in 1950. *Publications*: *Some Eminent Indian Scientists*; *Great Ideas & Theories of Modern Cosmology*; *Great Ideas of Operations Research*, etc.; Technical Papers: *Quality Control in Railway Workshops*; *Operation Research on the North East Frontier Railway* and several others. *Address*: N. 12, South Extension, Ring Road, New Delhi 3.

SINGH, Lt.-Gen. K. Bahadur, P.Sc., I.D.C., N.D.C., Lieut. Governor, Himachal Pradesh, since May 1967. *b.* Aug. 5, 1910 at Palaitha, Kotah; *Educ.*: Prince of Wales Royal Indian Military Coll. Commissioned from Royal Military Coll., Sandhurst, Jan. 29, 1931; served in the 4th battalion and the Training Centre of the Kumaon Regt. before World War II; proceeded to the Far East with the 4th Kumaon, 1939; held a number of Staff appointments, including Deputy Secretary (Military) to the Cabinet, and Brigadier, General Staff of a Command; commanded a brigade, and Fourth and Fifth Infantry Divisions; Adjutant General, A.H.O., Sept. 1956-59; First Commandant, National Defence Coll., 1959-63; G.O.C. in C. Central Command, 1963-67; member, Indian Council of World Affairs. *Address*: Simla 4.

SINGH, Kewal, B.A. (Hons.), LL.B., I.C.S., Padma Shri, 1955; Secretary, Ministry of External Affairs, since Dec. 1968. *b.* June 1, 1915; *Educ.*: Forman Christian Coll., Lahore; Law Coll., Lahore; Balliol Coll., Oxford. Joined I.C.S., 1938; held important positions in Punjab, 1940-48; First Secy. Indian Embassy, Turkey, 1948-49; Indian Military Mission, Berlin, 1949-51; Charge d'Affairs, Legation of India, Lisbon, 1951-53; Consul-Gen. of India, Pondicherry, 1953-54; Chief Commr., the State of Pondicherry, Karaikal, Mahe and Yanam, 1954-57; Amb. to:

Cambodia, 1957-58; Sweden, Denmark and Finland, 1959-62; Dy. Indian High Commr. in U.K., 1962-65; High Commissioner to Pakistan, '65-'66; Ambassador to U.S.S.R. & Mongolian People's Republic 1966-68. *Address*: External Affairs Ministry, New Delhi.

SINGH, Mairembam Koireng, Ex-Chief Minister, Manipur *b.* Dec. 19, 1915; *Educ.*: Bengali High School, Imphal. Entered active politics as member, Nikhil Manipuri Mahasabha, a prominent political party in Manipur, 1938; joined I.N.A. (Azad Hind Fauz), 1944; member, Manipur State Leg. Assembly, 1948; member, Electoral Coll., Manipur, 1951; Pres., Manipur State Congress Cttee., 1955-57; member, Manipur Territorial Council, 1957-62 and its Chairman 1962-63; Chief. Min., Manipur, 1963-67 and 1968-69. *Address*: Moirang, P.O. Moirang, Manipur.

SINGH, Mr. Justice Mehar, Bar-at-Law, Chief Justice, Punjab and Haryana, since Nov. 1, 1966. *b.* Aug. 15, 1908; *Educ.*: F. C. Coll., Lahore; called to the Bar, 1933. Advocate, Lahore High Court, 1933; Judicial service, Faridkot State, Oct. 1935; Judge, High Court, 1943-45; Home Secretary, 1945-46; Chief Secy., 1946-47; Chief Justice, 1947-48; Dist. and Sessions Judge, PEPSU, 1948-51; Special Enquiring Officer for Anti-Corruption cases, 1951-53; Secy. to Govt., Law Deptt. and Legal Remembrancer, and also Secy. to Govt., Education and Health Deptts., 1953; Judge, High Court, 1953-56; Judge, High Court, Punjab, 1956-66; Acting Chief Justice, 9th to 28th May, 1966; Chief Justice, Punjab, May to Oct. 1966; Ag. Governor: Punjab & Haryana, June to Sept. 1967; Punjab, Sept. to Oct. 1967. *Address*: 241, Sector 9-C, Chandigarh.

SINGH, Milkha, Padma Shri, 1960, Leading sportsman; Dy. Director of Sports, Punjab. *b.* 1935. Started his career, 1953; specialised in 400 meters race; came first in the Indo-Pakistan meet at Delhi, 1956; selected for the World Olympic Games at Melbourne, 1956; won gold medals in 200 & 400 meters in III Asian Games at Tokyo; and in 440 yards in British Empire and Commonwealth Games, Cardiff; stood fourth in Olympics, Rome, 1960; also in the fourth Asian Games at Djakarta and won Gold medals for 400 metres, and 4 + 4 relay; is the holder of Helma Award. *Address*: Deputy Director of Sports (Coaching), Sports Department, Kothi No. 263, Sector 9C, Chandigarh.

SINGH, Mohan, M.A., M.O.L. (1933), Punjabi poet; Mg. Dir., Hind Publishers Ltd., Jullundur. *b.* Oct. 20, 1905; *Educ.*: Oriental Coll., Lahore. Started the *Panj Darya* at Lahore, 1939; Head of Persian and Punjabi Deptt., Sikh National Coll., Lahore, 1940-44; member: Adv. Board for Punjabi, Sahitya Akademi; Gen. Council, Sahitya Akademi, Delhi; Exec. Council, Sahitya Akademi, New Delhi; first fellow, Punjabi Sahitya Akademi, 1966; Punjab Govt. Award, 1967; *JAMIR* (Soviet Land Nehru Award, 1968); Sahitya Akademi's National Award, 1960; *Jandre. Publications*: *Sawe Pattar*, *Kasunbra*, *Adhwate*, *Asia Da Chanan*, *Kach Sach*, *Awazan*, *Niki Niki Washnan* (short story), *Wadda Walia* 1958. *Address*: Civil Lines, Jullundur.

SINGH, Dr. Nagendra, M.A., LL.D. (Cantab), D.Sc. (Law) (Moscow), D.C.L. (Delhi), M.A., B.Litt., LL.D. (Dublin), D.Litt. (Bihar), D.Phil. (Cal.), Bar-at-Law, I.C.S., i.d.c., J.P., Secretary to the President of India since December 5, 1966. Joined I.C.S., 1938; worked in the Ministries of Defence, I. & B., States (Home) and Transport as Jt. Secy., Addl. Secy. & Special Secy., D.G.S.

and Secy., Transport Min. (1956-66); Member: Constituent Assembly of India (1947-48); Permanent Court of Arbitration, The Hague (1967); International Law Commission (1967); Pres., IMCO Assembly (1963-65); Chairman: Eastern and Western Govt. Shipping Corps.; Mogul Line; Hindustan Shipyard Ltd.; visiting Professor of the Univs. of Madras, Bombay, Delhi, Banaras and Udaipur. *Publications*: *Termination of membership of International Organisations*; *Nuclear Weapons and International Law*; *Defence Mechanism of the Modern State*; *International Conventions of Merchant Shipping*; etc. *Address*: 3, Willingdon Crescent, President's Estate, New Delhi.

SINGH, Colonel Raja Surendra, Dir.-Gen., State Farms and ex-officio Addl. Secy., Min. of Food and Agr., Govt. of India and former Ruler of Nalagarh State in the Punjab. *b.* 1920; *Educ.*: Aitchison Coll., Lahore. Had adm.ive. trg. with the Punjab Govt. and held appts. in the Police, Revenue, Judicial, Public Health and Forest Deptts.; joined the Indian Army and served with the Dogra Regt.; succeeded to the *Gaddi* 1946; elected M.L.A., PEPSU, in both the General Elections; apptd. Min. for Fin., Plng. and Devpt.; Indian rep. at the 8th Cfee. of the F.A.O. in Rome, 1955 and 10th Cfee., 1959; Adv.: Min. of Food & Agri., 1958-62; Colonization, Min. of Home Affairs, 1962; Programme Admn. and ex-officio Addl. Secy., Plng. Commn., 1962-66; led the Indian Agrl. Machinery Delegation to Russia, 1966. *Address*: 10, Teen Murti Lane, New Delhi 11.

SINGH, Ram Subhag, Shastri (Banaras), M.A. (Missouri), Ph.D. in Journalism (Missouri), Minister for Railways, Govt. of India, since Feb. 14, 1969. *b.* July 7, 1917; *Educ.*: Sri Kashividyapith, Varanasi; Missouri Univ.; Columbia, U.S.A. Member, Prov. Parliament, 1950-52; M.P., Lok Sabha, since 1952; member: Exec. Cttee. of the Cong. Party in Parliament, since 1954 and its Secy., 1955-62; Cong. Wkg. Cttee., since Jan. 1961; Cong. Central Election Cttee., since May, 1966; Leader, Indian delegation to: 8th Session of the Intn'l. Rice Commn. and sixth F.A.O. Regional Cfee. at Kuala Lumpur, 1962; Anglo-Asian Rural Reconstruction Cfee., Kuala Lumpur, 1964; Union Min. of State for: Agr., 1962-64; Railways, 1964-67; Min. for Parl. Affairs & Communications, 1967-69; travelled extensively in U.S.A., Canada, U.S.S.R., West Asia and South-East Asia. *Address*: Khajuria, Arrah (Bihar); 12, Janpath, New Delhi.

SINGH, Sachindra Lal, Chief Min., Tripura, since July 1, 1963. *b.* 1907, in Agartala; *Educ.*: U.K. Academy, Agartala; Victoria Coll., Comilla. Often courted jail in his fight against British Imperialism and the monarchy in Tripura; externed from Tripura and detained by the British Govt. for his revolutionary activities; after release, founded "Tripura Rajya Gana Parishad" and the Tripura State Congress Cttee.; was Pres. for about 10 years; was again externed for his land reform movement; Adv. to the Chief Commr., Tripura, 1953-57; elected Chairman, Territorial Council, 1957. *Address*: Agartala.

SINGH, Prof. Sher, M.A., Minister of State for Information & Broadcasting and Deptt. of Communications, Govt. of India, since Feb. 14, 1969. *b.* Sept. 18, 1917; *Educ.*: Delhi Univ. Elected M.L.A., Punjab, 1946, & since 1952; Parliamentary Secy., Punjab, 1948-51; Dy. Leader, Cong. Party in Punjab Leg. & Min. of Irrigation and Power, 1956-57; Founder-Pres., Haryana Lok Samiti; advocated a separate State for Haryana people; worked for Harijan Welfare; attended the World Disarmament and Peace Cfee., in Moscow, 1962; visited U.S.A., under

the Leaders' Exchange Programme, 1965; has travelled extensively all over the world; led Indian Delegation to the Intellectual Property Conference, Stockholm, June-July 1967; Min. of State, Min. of Educ., Govt. of India, 1967-69. *Publications: Roos Yatra; Haryana Aaj aur Kal.* *Address:* Ministry of Information & Broadcasting, Govt. of India, New Delhi.

SINGH, Surendra Pal, B.A. (Hons.) (History), Deputy Minister of External Affairs, Govt. of India, since March 18, 1967. *b.* May 17, 1917; *Educ.:* Col. Brown's School, Dehra Dun; Cambridge Univ., England. Commissioned Officer in the Indian Armoured Corps. 1940-43; actively co-operated with the National Extension Service Scheme of the Govt.; donated funds for the building of Schools and Hospitals and roads in the rural areas of his home Dist.; M.P., Lok Sabha, since 1962; travelled widely all over Western Europe, 1935-40 and 1951. *Address:* Unchagaon Estate, Dist. Bulandshahr (U.P.); External Affairs Ministry, New Delhi.

SINGH, Sardar Swaran, B.Sc. (Hons.), M.Sc., (Physics) (Lahore), LL.B., Min. for Defence, Govt. of India since Nov. 1966; ex-member, Png. Commn. *b.* Aug. 19, 1907; *Educ.:* Govt. Coll., Lahore. Elected M.L.A., Punjab, 1946; Min. for Devpt., Food & Civil Supplies, Punjab; member, Security Council to advise Govt. on the day-to-day problems relating to law and order, March 1947; was member, Partition Cttee. to divide the assets of the Punjab; Min. for: Home, Gen. Admn., Revenue, Irrigation, Electricity, Punjab, 1947; Capital Project, Electricity, April-May, 1952; Works, Housing, Supply, 1952-57; led the Indian delegation to the sessions of the Eco. Social Council of the U.N., at Geneva, 1954, 1955; elected to the Lok Sabha; led a delegation to U.S.S.R. 1959; Min. for: Steel, Mines and Fuel, 1957-62; Food & Agr., 1963-64; Industry & Supply; visited Nepal Aug. 1964, Burma, Sept. 1964; attended the Cfce. of Foreign Mins. of non-aligned countries, Oct. 1964; leader, Indian delegation to U.N. Gen. Assembly, Dec. 1964; Min. for External Affairs. *Address:* 7, Hastings Road, New Delhi.

SINGH, Tribhuvan Prasad, B.A. (Hons.) (Econ.), M.A., I.C.S., Secy. to the Govt. of India, Dept. of Revenue, since April 1968. *b.* May 9, 1913; *Educ.:* Patna Univ.; London School of Economics. Joined the I.C.S., 1937; was posted to Bihar; held assignments mostly on the developmental side; Secy., Deptt. of Supply and Secy., P.W.D. 1946-49; Commr. of Patna and Tirhut Divns., 1949-53; Chief Admstr., River Valley Projects, Bihar, Jan. '54-July '63; Addl. Secy., Png. Commn., Aug. '63 to Feb. '65; Secy. to the Govt. of India, Png. Commn.; Secy. to the Govt., Dept. of Revenue & Expenditure, 1965-1968; Fin. Secy., Jan.-March 1968. *Address:* C/o Ministry of Finance, North Block, Secretariat, New Delhi; *Permanent:* Mohalla Sheikhpora, Patna Town, Bihar.

SINGH DEO, Rajendra Narayan, Maharaja of Patna State, since Feb. 1933 and Chief Minister, Orissa, since March 8, 1967. *b.* Mar. 31, 1912 at Seraikela; *Educ.:* Mayo Coll., Ajmer; St. Columbia's Coll., Hazaribagh. Was member, Chamber of Princes and Vice-Pres., Council of Rulers of the Eastern States Agency; was Chief Patron, 5th All Indian Cultural Unity Confce.; introduced many reforms in his State; formed a new party called Ganatantra Parishad, 1949, which merged with the Swatantra Party after the 1962 Parliamentary election; was elected to the Lok Sabha, 1952; elected M.L.A., Orissa, since 1957; Leader of the Opposition in the Assembly, 1957-59; Dy. Leader and Finance Min., Ganatantra Parishad-Congress

coalition Govt., 1959-61; leader of the Opposition, 1961; Pres., Orissa Unit of the Swatantra Party; member, Gen. Council, National Exec. and Central Parly. Board, Swatantra Party. *Address:* Bhubaneswar 1.

SINGHANIA, Lakshmiapat, Industrialist. *b.* 1910; *Educ.:* Up to 1926. Joined the J. K. Organisation, his family business; heads and directs the affairs of: Aluminium Corpn. of India Ltd., Ganges Mfg. Co. Ltd. (Jute Mills), Straw Products Ltd. (Paper and Paper Boards), J. K. Steel Ltd., National Insurance Co. Ltd., Nav Bharat Vanijya Ltd., Bengal & Assam Investors Ltd., J. K. Industries Private Ltd., etc.; an Underwriting Member, Lloyds Society of London; Ex-Pres.: F.I.C.C.I.; All India Organisation of Industrial Employers; Indian National Cttee. of I.C.C.; Merchants Chamber of U.P.; Bharat Chamber of Commerce, etc.; travelled extensively around the world several times; takes active interest in public affairs, social welfare and charitable institutions. *Address:* Office: 7, Council House Street, Calcutta 1; *Residence:* J. K. House, 12 Alipore Road, Calcutta 27.

SINGHANIA, Sir Padampat, LL.D. (Kanpur Univ.) (1969), Industrialist and business man. *b.* 1905. Pres. J. K. Organisation; founded Merchants' Chamber, U.P., 1932; ex-Pres., F.I.C.C.I.; Vice Pres., Seva Samiti, Allahabad; was member: U.P. Leg. Assembly; Constituent Assembly; First General Council of U.P. Assoc. for Blind; Indian Institute of International Affairs; Heavy Industries Adv. Cttee.; Chairman, Board of Governors, Indian Institute of Technology; established: J. K. Institute of Applied Physics and Technology, Allahabad; J. K. Institute of Sociology and Human relations, Lucknow; J. K. Institute of Radiology and Cancer Research, Kanpur; Chairman, Hindustan Commercial Bank Ltd. *Address:* Office: Kamla Tower, Kanpur; *Resi.:* "Ganga Kutir", Cantonment, Kanpur.

SINGHJI, Maharaja Karan

(See Jammu & Kashmir under "Who's Who").

SINHA, Mr. Chief Justice Deep Narayan, B.A., Barrister-at-Law (Lincoln's Inn), Chief Justice, Calcutta High Court, since 1966. *b.* Jan. 14, 1908; *Educ.:* Hastings House; Santiniketan; Presidency Coll.; T. N. J. Coll., Bhagalpur; Barrister-at-Law, Lincoln's Inn, London. Joined Cal. High Court, 1931; raised to the Bench, 1950; acted as Governor of West Bengal, April-Aug. 1969. *Address:* 6, Queen's Park, Ballygunge, Calcutta.

SINHA, H.E. Rajkumar Raghunath, of Sitamau, M.A. (Cantab.), Bar-at-Law, I.F.S., High Commissioner to Uganda and concurrently Ambassador to Rwanda and Burundi, since Aug. 1968, *b.* Dec. 6, 1912; *Educ.:* St. John's Coll., Agra; Magdalene Coll., Cambridge; Lincoln's Inn, London; Research Scholar, Cambridge Univ. After serving Sitamau and Alwar States, joined the I.F.S., 1948; was posted as First Secy., Indian High Commn., Lond. and then in the Indian Embassy, Addis Ababa, Ethiopia; Indian Govt. Trade Commr. in Karachi, 1952; Consul-Gen. of India in Egypt; Consul-Gen. of India for the Western States of the United States, San Francisco; Indian Amb. to: Cambodia; Netherlands, July 1963-July 1966; Amb. to Guinea & Mali, 1966-68. *Address:* High Commission of India, Bank of India Building, Kampala Road, Kampala.

SINHA, Satya Narayan, Minister of Information, Broadcasting and Communications, Govt. of India, since Feb. 14, 1969. *b.* 1900, at Darbhanga (Bihar); *Educ.:* Patna. Courtted jail in the freedom movement; member: Bihar Legislative Assembly, 1926-30; Indian Constituent

Assembly; was Chief Whip, Congress Party in the Central Assembly and Constituent Assembly; Min. of State for Parly. Affairs, Govt. of India, 1949-62; elected M.P., Lok Sabha, since 1952; Min. of Parly. Affairs, 1962-64; I. & B.; 1963-64; Communications and Parly. Affairs, 1964-67; appointed leader of the Lok Sabha, Feb. 1966; Min. without portfolio, March-Nov. 1967; Min. for Health, Family Planning & Urban Devpt., 1967-69. *Address*: 19, Akbar Road, New Delhi.

SIVAJI GANESAN (See under GANESAN, Sivaji).

SIVASAILAM, A., B.Com., Business man; Chairman, Amalgamations Pvt. Ltd., Madras and Chairman & Mg. Dir., Tractors & Farm Equipments Ltd., Madras. *b.* Aug. 24, 1934; *Educ.*: Madras and London. General Manager, TAFE, since 1961; member: Development Council for Automobiles, Automobile Ancillary Industries, Transport Vehicle Industries, Tractors, Earthmoving Equipment and Internal Combustion Engines, Govt. of India; Local Board (Southern Area), Reserve Bank of India; Court of Governors, Adm. Staff Coll. of India, Hyderabad; is Fellow, Institute of Directors, London; member, General Cttee., Madras Chamber of Commerce. *Address*: 202, Mount Road, Madras 2.

SOMANI, Gajadhar, Industrialist and Millowner. *b.* April 1908; *Educ.*: Shree Vishudhanand Vidyalaya, Calcutta. Twice M.P.; Ex-Chairman, Bombay Mill-owners' Assoc.; was Pres., All-India Org. of Industrial Employers, New Delhi for four years; ex-Pres., Rajasthan Chamber of Commerce & Indus., Jaipur; is on the Exec. Cttee., F.I.C.C. & I., New Delhi; was on the Exec. Cttee.; Mill Owners' Association, Bombay; Indian Cotton Mills' Fed., Bombay; Ex-Pres.: Cement Mfrs.' Assocn.; Indian Merchants' Chamber, Bombay, 1963-64; Dir. of many companies; is connected with many religious, social and educ. instts.; served on Parly. Consultative Cttees. i.e. of the Ministries of Fin., Commerce & Indus., Labour & Employment; Chairman, Textile Mills Stg. Adv. Cttee. to go into the working on uneconomic and sick units in the industry. *Address*: Shreeniwas House, Waudby Road, Fort, Bombay 1.

SOMASUNDARAM (Somu), M. P., Vidwan (Madras Univ.), Tamil poet and short story writer; Chief Producer, Features for the Southern Regions, A.I.R. *b.* June 17, 1921; *Educ.* M. D. T. Hindu Coll., Tirunelveli. Is popularly known by his pen name 'Somu'; Editor, *Kalki*—Tamil Weekly, 1954-56; awarded several prizes like the Bharati Gold Medal, 1938, the first prize in the All-India Tamil Short Story competition, 1940, Sahitya Akademi Award for his travel Book, 1963, etc.; deputed from the Infor. & Broadcasting Min. to the B.B.C., 1960; knows Sanskrit, Hindi, Malayalam. *Publications*: Several short stories, poems, essays, novels, a travelogue and books on Tirumular & Mudal Alwar. *Address*: C/o AIR, Madras 4.

SORCAR, Praful Chandra, F.R.S.A. (Lond.), Padma Shri 1964, Magician; J.P., Calcutta. *b.* Feb., 23, 1913, at Tangail, East Pakistan; *Educ.*: Calcutta Univ. Took to magic at an early age; won the "Sphinx" Gold Award (the 'Nobel Prize' of Magic) from New York twice; hailed as "World's greatest Magician" in Germany & awarded Royal Medallion & the Golden Laurel; Hon. Member of the very exclusive Magicians' Club, Tokyo; Pres., All-India Magic Circle, Calcutta; cycled on Place de l'Opera, Paris, blindfolded and hooded, 1950; Calcutta, 1936; Times Square, New York City, 1957; at World Magic Convention (Chicago), 1950; has had long shows in

several countries. *Publications*: 16 works on magic and allied subjects in English, Hindi and Bengali. *Address*: "Indrajal," 276/1, Rash Bihari Avenue, Calcutta 19.

SPASOWSKI, H.E., Mr. Romuald, Ambassador of the Polish People's Republic to India. *b.* 1920; *Educ.* Warsaw Univ., Joined the army, 1945; Deputy Chief of the Military Mission in Germany, 1946-48; Consul in Dusseldorf, 1948-49; Head of section at the Foreign Ministry, 1949-51; First Secy., Polish Embassy in London, 1951-53; Polish Envoy in Buenos Aires, 1953-55; Ambassador in Washington, 1955-61; Director of Asia and Africa Deptt., Foreign Ministry; Ambassador-at-large, 1961-63; Polish Commissioner, International Commission for Supervision and Control in Saigon, 1963-64; Director of Asia and Africa Deptt. at the Foreign Ministry, 1964-67. *Address*: 22, Golf Links, New Delhi 3.

SREENIVASULU, K., Diploma in Fine Arts (First Class), Painter; Officer in Charge, Design Demonstration Centre, Egmore, Madras. *b.* Jan. 6, 1923; *Educ.*: School of Arts, Madras. Artist: won the President's Award for the best picture of the year 'Lotus Garland', 1953; displayed his works in U.S.A., U.S.S.R., China, Japan, Philippines and Australia; representative of the Lalit Kala Akademi to all India Council of Technical Education in Applied Art; member: Exec. Board, Madras State Lalit Kala Akademi; Cttee. for Purchasing Art Works, National Art Gallery, Madras; Gen. Council of the Lalit Kala Akademi, New Delhi, since 1967. *Address*: 8, III Main Road, Bhaktavatsalam Nagar, Adyar Madras 20.

SRI KRISHNA, Dr., C.I.E. (1942), Ph.D., D.Sc. (Lond.), F.N.I., Scientist. *b.* July 1896, at Lahore; *Educ.* Punjab Univ.; D.S.I.R. (England) Research Scholar, 1919-21; Queen's College, London; King's College, London. Reader in Organic Chemistry, Punjab Univ., 1925; Foundation Member, National Institute of Sciences, India, 1937; Pres., Chemistry Section, Indian Science Congress, 1940; Vice-Pres., Forest Research Institute & Colleges, Dehra Dun, 1947; its Dir. of Forest Research, 1948-50; Leader, Scientific Delegation to Australia, 1948; Dy. Dir., C.S.I.R., New Delhi, 1952-53; Scientific Adviser & Scientific Liaison Officer, Indian High Commission, London, till 1959. *Publications*: Over a hundred publications, mainly on plant products. *Address*: 62, Perryn Road, London, W. 3; 88, Rajpur Road, Dehra Dun, U.P.

SRINIVASAN, Mysore, B.E., M.I.E.(Ind.), F.A.S. C.E., M.A.R.E.A., F.M.I.R.T., I.R.S.E., Director-General, Research, Designs & Standards Orgn., Min. of Railways, since 1968. *b.* March 24, 1916; *Educ.*: Bangalore. Entered the Indian Rly. Service of Engineers, 1940; starting as Asstt. Exec. Engineer in 1940 rose to the position of Chief Engineer, 1962; held posts of Jt. Dir., Jt. Secy., Dir. on Spl. Duty (Concrete Sleepers), Dir., Efficiency Bureau; Dir., Rly. Planning, Min. of Rlys. (Rly. Board); with India Store Deptt., London and India Supply Mission, Washington, 1954-58. *Publications*: *Modern Permanent Way*. *Address*: Director-General, Research, Designs & Standards Organisation, Alambagh, Lucknow 5.

SRINIVASAN, Sirulur Desikachari, M.A., F.I.A., Mg. Dir., Life Insurance Corpn. of India, Bombay, since Jan. 1960. *b.* July 1, 1910; *Educ.*: Presidency Coll., Madras. Starting as an insurance agent, gradually rose to the position of Ag. Mg. Dir., L.I.C., 1959-60; Local Rep. of the Instt. of Actuaries, London; was Pres.: Actuarial Soc. of India; Fed. of Ins. Instts., Bombay; was member, Exec. Cttee., Gen. Ins. Council from its inception; Chairman, Export Credit and Guarantee

Corpn. Ltd. Bombay; Dir.: Indus. Fin. Corpn., New Delhi; Export Credit and Guarantee Corpn. Ltd., Bombay; Oriental Fire & Gen. Ins. Co. Ltd., Bombay, etc.; Trustee, Unit Trust of India, Bombay; Central Warehousing Corpn., New Delhi; travelled extensively abroad for life and gen. ins. *Address*: Yogakshema, Madame Kama Road, Bombay 1.

SRI RAM, Nilakanta, B.A. (Madras), Pres., Theosophical Society. *b.* Dec. 15, 1889; *Educ.*: Madras. Worked with Dr. Annie Besant on her newspaper, *New India*, 1919-20 & 1923-32; was on the *Leader* staff, 1922-23; has been Secy., Treasurer and Vice-Pres., Theosophical Soc.; elected intn'l. Pres., Feb. 1953; has travelled abroad, lecturing and writing. *Publications*: *Thoughts for Aspirants, An Approach to Reality, A Theosophist Looks at the World, The Human Interest, Man, his Origins and Evolution, Life's Deeper Aspects*, etc. Edits the monthly *Theosophist*. *Address*: Adyar, Madras 20.

SRIVASTAVA, Bishwambhar Nath, M.Sc., D.Sc. (Alld.), F.N.I., F.N.A.Sc., F.P.S. (London), Scientist; Prof. of Gen. Physics, Indian Assoc. for the Cultivation of Sc., Jadavpur, Calcutta, since 1953. *b.* Aug. 23, 1905; *Educ.*: Jaunpur, Allahabad and Oxford Univ. Fellow, Nat. Instt. of Scs. of India, 1946; awarded Educ. Minister's gold medal by the Nat. Academy of Scs of India, 1950; elected: Recorder of Physics Sect., Indian Sc. Cong., 1953; Fellow of Physical Soc., London, 1953. *Publications*: Author (jointly with Prof. M.N. Saha) of *Treatise on Heat*, etc. *Address*: Indian Association for the Cultivation of Science, Calcutta 32.

SRIVASTAVA, Chandrika Prasad, M.A., LL.B., I.A.S., Chairman & Mg. Dir., Shipping Corpn. of India Ltd., Bombay, since March 3, 1966; Chairman, Mogul Line Ltd.; Director: Minerals & Metals Trading Corpn. Ltd., Central Inland Water Transport Corpn. Ltd.; Pres., Institution of Marine Technologists, B'bay; *b.* July 8, 1920; *Educ.*: Lucknow & Allahabad. Dy. Secy. to Govt. of India, 1957-58; Senior Dy. Dir. General of Shipping, 1959-60; Mg. Dir., Shipping Corpn. of India Ltd., 1961-64; Jt. Secy. to the Prime Minister of India, 1964-66; duly accredited representative to Maritime Conferences at U.S.A., Geneva, Ceylon, London; Member: National Shipping Board, Merchant Navy Training Board, Board of Control of Jayanti Shipping Co., Ltd., Governing Council of the Assoc. of Public Enterprises and several other Govt. bodies; visited U.K., USA, USSR, France, Germany, Italy, Norway, Poland, Yugoslavia, Czechoslovakia, Switzerland, Canada, Japan and Australia. *Address*: "Steelcrete House; Churchgate, Bombay-1.

SRIVASTAVA, J. K., B.Sc. Tech. (Manch.), A.M.-C.T., A.T.I., Ex-M.L.A., Chief Business Exec., Sir J. P. Srivastava Group of Industries. *b.* Nov. 13, 1913; *Educ.*: Grimes Tutorial School; Coll. of Tech., Univ. of Manchester. Pres., Upper India Chamber of Commerce, 1957-60; Vice Pres., Employers' Fedrn. of India; Member: State Plng. Board, U.P.; Export Promotion Adv. Council, Govt. of India; Indian Cotton Mills Federation; Exec. Cttee., All India Board of Tech. Studies in Management; U.P. Leg. Assembly, 1945-52; Cttee., Cotton Adv. Board, Govt. of India and numerous Govt. and Pvt. bodies; Chairman: Northern Regional Cttee., Employers' Fed. of India; Governing Council, Northern India Textiles Research Assoc.; Leader, Indian Delegation, Intl. Org. for stdn., U.S.A., 1952. *Address*: Kailash, Nawabganj, Kanpur.

SRIVASTAVA, Mahabir Prasad, M.A., B.A. (Hons.), LL.B., I.A.S., Chief Secretary to M.P. Govt., since Sept. 1968. *b.* June 6, 1912; *Educ.*: Allahabad

Univ. Held important positions in Central India, Panna and Vindhya Pradesh, 1943-56; Home Secy., M.P. Govt., 1956-61; Commissioner: Bhopal Divn., 1961-62; Indore Division, 1962-68; Addl. Chief Secy., M.P. Govt., May-Sept. 1968. *Address*: Chief Secretary to Madhya Pradesh Govt., Bhopal.

SUBBARAO, Koka, B.A., B.L., Doctor of Laws (Honoris Causa) (Osmania Univ.) (1968), Ex-Chief Justice, Supreme Court of India, Pro-Chancellor, Delhi Univ., since May 1966. *b.* July 15, 1902; *Educ.*: Govt. Arts Coll., Rajahmundry; Law Coll., Madras. Practised as Advocate, Madras High Court, 1926-48; Judge, Madras High Court, 1948-54; Chief Justice, Andhra High Court, 1954-56; Chancellor, Sri Venkateswara Univ., 1954-55; Chief Justice, A.P. High Court, 1956-58; acted as Chief Justice of India, Jan. 1965; Judge, Supreme Court of India, 1958-66; Chief Justice, Supreme Court of India, June '66-May '67. *Address*: 7, Rest House Crescent, Bangalore 1.

SUBBARAO, Rayaprolu, Sahitya Sthapaka, 1947, Telugu Poet. *b.* March 1892; *Educ.*: Nizam Coll., Hyderabad; Santiniketan; Head, Telugu Deptt., Osmania Univ., 1921; S. V. Univ., 1956-59; Principal, Univ. Coll., Warangal, 1948-50; Pres., the All Andhra Poets and Pandits Cfce., Rajahmundry, 1934; Jt. Pres., Hyderabad Telugu Academy, 1950; member: Sahitya Akademi Gen. Council. *Publications*: *Lalita*, Poetic work; *Thrinalakan*, purely ric; *Kashtakamal*; *Swapna Kumar*; *Telugu Tota*; *Sneha Lata*; *Jada Kuchulu*; *Andhravali*; *Vanamala*; *Ramya Lekum*; *Madhuri* and *Kanne Patalu* (verses and songs); *Roopa Navanitam* (Drama); *Megha Doota & Uttara Ramacharita* (1959), *Sakuntala* (1964) translations. *Address*: Lalita Kutir, 44, Nehru Nagar, Secunderabad.

SUBBIAH, K. V., B.A., Minister for Religious Endowments and Housing, Govt. of Tamil Nadu, since Feb. 1969. *b.* May 11, 1920; *Educ.*: State Elementary School, Alangudi; Brahadambal High School, Pudukottai; Rajah's Coll., Pudukottai; St. Joseph's Coll., Tiruchirapalli. Was Special Revenue Inspector, Revenue Deptt., Madurai Dist. for 10 years; jailed during the Anti-Hindi agitation; was Vice-Pres., Co-operative Marketing Society, Alangudi; elected to State Assembly from the Alangudi Constituency, 1967. *Address*: "Anbu", Greenways Road, Adyar, Madras-20.

SUBBIAH, Varadarajalu Kailasa, Minister for Agriculture, Pondicherry, since April 1969. *b.* Feb. 7, 1911; *Educ.*: Calve Coll., Pondicherry. Joined the National Liberation Movement, 1930; deputed to France for political discussions, 1937; courted arrest in the freedom movement; exiled by the French for over one and half years from 1944; represented Pondicherry in the French Parliament, 1946-49; member, Pondicherry Assembly, since 1946; was Leader of the Opposition and Chairman, P.A.C. in the Assembly; widely travelled in France, U.S.S.R. and other West and East European countries; member: Exec. Cttee., Tamil Nadu and National Council, C.P.I.; Working Cttee., A.I.T.U.C. *Publications*: *Freedom Struggle in French India*. *Address*: 7, Vellala Street, Pondicherry.

SUBBULAKSHMI, Smt. Madurai Shanmugavadivu, Padma Bhushan (1954), President's Award for Karnatic Music (1956), Doctor of Literature by the Rabindra Bharati Univ. for her contribution to Karnatic Music, Jan. 1967, 'Sangita Kalanidhi' in 1969, Classical Karnatic Musician, *b.* Sept. 1916; *Educ.*: Learnt music from her mother. Gave solo performance and became a leading musician before 18; her part as heroine in the

Hindi film "Meera" won for her all India popularity; has given more than a 100 benefit recitals in aid of many national, social and religious causes; represented, Karnatic Music in the Edinburgh Intn'l Festival of Arts, 1963; also gave concerts in London, Frankfurt, Geneva and Cairo; special concert before U.N. Assembly on U.N. Day (Oct. 23, 1966) on invitation; 7-week concert tour in the U.S.A., Oct. Nov. 1966; had private audience with Pope, Dec. 3, 1966; first woman musician to be elected Pres. of the Madras Music Academy Confee., 1968. *Address*: "Kalki Buildings", 20, Dr. Guruswamy Mudaliar Road, Kilpauk, Madras-10.

SUBRAMANIAM, C., B.A., B.L. (Madras), Ex-Minister of Food, Govt. of India; was Pres., Tamilnad Cong. Cttee., 1967-69; Chairman, Aeronautics Cttee. b. Jan. 30, 1910, at Pollachi, Coimbatore Dist.; *Educ.*: Coimbatore and Madras. Started practice in Coimbatore, 1936; courted jail in the freedom movement; was Pres., Coimbatore D.C.C.; member: P.C.C., A.I.C.C.; Wkg. Cttee., Tamilnad Cong.; member, Constituent Assembly, 1946-52; M.L.A., Madras, 1952-62; Fin., Educ. and Law Min., Madras till 1962; M.P., Lok Sabha 1962-67; Union Min. for: Steel & Heavy Industries, 1962-63; Steel, Mines & Heavy Engg., 1963-64; Food and Agr., 1964-66; Food, Agr., Com. Devpt. and Co-op. 1966-67; visited the U.K. and the Continent, 1960, Russia, U.S.A., Canada, Japan and Singapore, 1961, U.S.A. and Australia, 1965; led Indian Delegation to the F.A.O. Regional Cfce. at Manila, 1964; Rome, 1965. *Publications*: Two travelogues in Tamil; *Countries I have visited and Round the World* and numerous articles. *Address*: River View, Guindy, Madras 25.

SUBRAMANYAN, K. G., Diploma in Fine Arts (Viswabharati), Painter; Prof. of Painting and Dean, Faculty of Fine Arts, Baroda. b. Feb. 15, 1924; *Educ.*: Presidency Coll., Madras; Kalabhawan, Viswabharati, Santiniketan; Slade School of Art, London. Lecturer in Fine Arts, Baroda Univ., 1951-58; Dy. Dir. (Designs), All India Handloom Board, 1958-61; Design Consultant to All India Handloom Board; member: All India Handicraft Board; Reader in Painting, Faculty of Fine Arts, Baroda, 1961-66; one-man shows in Delhi, 1955, 1958, 1962, New York, June 1967, Bombay, 1957 and 1960; participated in many intn'l. exhibitions; received medallion of honourable mention in the Sao Paolo Biennale, 1961 & National award, 1965; won Gold Medal, First Indian Triennale. *Address*: Faculty of Fine Arts, Pushpa Bagh, Baroda.

SUKHADIA, Mohanlal, L.E.E. (Bombay), Chief Min., Rajasthan, since Nov. 13, 1954. b. July 31, 1916; *Educ.*: Nathdwara (Udaipur) and Bombay. Interned during 'Quit India Movement'; Min. for Civil Supplies, P.W.D., Relief & Rehab., Mewar State; was Devpt. Min., Rajasthan; M.L.A., from Udaipur City constituency; Min. for Civil Supplies and Agr. incl. Irrigation, Rajasthan, 1951-52; Min. for Agr., Revenue (except Forests and Co-op.), and Famine Relief, 1952-54; responsible for the land reforms and Panchayati Raj in the State. *Publications*: *Our Administrative Problems*; Articles on political, eco. and social subjects. *Address*: 8, Civil Lines, Jaipur.

SUMATI Morarjee, Smt., Ex-Chairman, Indian National Steamship Owners' Assoc. b. March 13, 1909; *Educ.*: Privately. Dir.: Mg. Cttee., The Scindia Steam Navigation Co., Ltd.; Kamal Shipping Co., Ltd.; Jalanath Ins. Ltd.; The Eastern Bunkers Ltd.; Narottam & Pereira Ltd.; Member: Sea Cadet Council; All India Handicraft Board; Regional Handicrafts Design Centre; Indian and Tourist Industry's Council; Nat. Shipping

Board; Merchant Navy Trg. Board; Shipping Co-ordination Cttee.; Export Promotion Council; Dy. Chairman, Lloyds India Cttee.; Vice-Chairman, Maritime Law Assoc. of India. *Address*: Palm Bun, Gandhi Gram, Juhu, Bombay 54.

SUNDARAM, C. R., B.Sc. (London), A.R.C.S. (1933), Chairman, National Small Industries Corpn. Ltd., since Nov. 1961. b. Feb. 28, 1910; *Educ.*: Presidency Coll., Madras; Imperial Coll. of Sc. and Tech., Univ. of London. After working with Rallis Bros. Ltd. for some time served as Asstt. Dir. (Textiles), Supply Deptt., Govt. of India until Aug. 1942; with Tata Sons Ltd., Bombay, 1943-49; apptd. as a Dir., Tata Incorporated, New York, 1949; became its Vice-Pres.; was Pres., Indian Chamber of Commerce of America Incorporated; Branch Mgr., Voltas Ltd., New Delhi, 1954-59; Dir.: Nat. Small Indus. Corpn. Ltd., 1960; Hindusthan Photo Films Mfg. Co.; Bharat Electronics Ltd.; member: Indus. and Mineral Resources Board, M.P., since Oct. 1965; Governing Council, Small Industry Extn. and Trg. Instt., Hyderabad. *Address*: C/o National Small Industries Corpn., Ltd., Okhla Industrial Estate, New Delhi.

SUNDARAM, Tribhuvandas Purushottamdas Luhar, "Bhasha Visharad" (1929), Gujarati Poet, Short Story Writer and Critic. b. March 22, 1908; *Educ.*: Gujarat Vidyapith, Ahmedabad. *Publications*: *Kadvi Vani*; *Kavya Mangala*; *Rang Rang Vadalian*; *Vasudha*; *Yatra*; *Hirakani*; *Piyasi*; *Unnayan*; *Dakshinayan*; *Arvachin Kavita*; *Avalokana*; *Maha Yogi Sri Arvind*; *Chidambara*. *Address*: Sri Aurobindo Ashram, Pondicherry.

SWAMI CHIDANANDA (Pre-monastic Name Shridhar Rao), President, The Divine Life Society, Rishikesh. b. Sept. 24, 1916, at Mangalore, South Kanara Dist.; *Educ.*: Mangalore; Loyola Coll., Madras. Religiously inclined since birth; sought the company of devotees and saints even in his boyhood and youth; practised Yoga at home and developed kindness, compassion, simplicity, devotion, love of solitude and a spirit of selfless *Paropakara*; powerfully influenced by the lives of Ramakrishna Paramahansa, Jesus Christ, Swami Vivekananda, Ramathirtha, Ramana Maharshi, Ramadas and Swami Sivananda; renounced the world and journeyed north to the Himalayas, 1943; met his spiritual Guru H. H. Swami Sivananda at Rishikesh and dedicated himself to the Guru's service; ordained as a sannyasin, 1949; was made General Secy. of the Divine Life Society; travelled all over India as Swami Sivananda's spiritual representative till 1959; toured Europe and the Americas to spread the gospel of Divine Life and India's message of Yoga and Vedanta, 1960-61; elected Pres., D.L.S. at passing away of the holy founder, 1963. *Address*: P. O. Sivanandanagar, Dt. Tehri-Garhwal, U.P.

SWAMI, PRAJNANANANDA, Secy., Ramakrishna Vedanta Math, Calcutta. b. 1907; *Educ.*: City Coll., Calcutta; Varanasi. Joined the Ramakrishna Vedanta Math, 1927; took Sanyasa initiation from Swami Abhedananda, the direct disciple of Shri Ramakrishna Paramahansa, 1927; studied Nyaya and Vedanta Philosophies at Varanasi; conducted research on History of Indian Music; awarded: Sisir Memorial Prize, 1958, Rabindra Memorial Prize, 1960; fellowship by Sangeet Natak Akademi, 1963; connected with various educl. and cultural instt.s. *Publications*: On Music: *Historical Devpt. of Indian Music*; *A Historical Study of Indian Music*; *A History of Indian Music*; Bengali: *Bharatiya Sangeeter Itihasa*; *Raga O Rupa*; *Bangala Dhrupadamala* (with notations); Philosophy: *Philosophy of Progress and Perfection*; *Abhed-*

Ananda-darsana; Tirtharenu; Mana O Manusa, etc. Address: Ramakrishna Vedanta Math, 19B, Raja Rajkrishna Street, Calcutta-6.

SWAMI, Raja Yogi Nathji Ananda, B.A. (Allahabad), Diploma in Hosiery and Textile, Chairman Viswa 'Yoga' Bharati, Borivli, Bombay. *b.* Feb. 19, 1900; *Educ.*: Hindu Coll., Delhi; St. John's Coll., Agra. Took a vow to lead a life of four varna ashrama in response to a discourse on Hindu dharma by an American lady in 1916 when he was a student in the 9th class; initiated for Dhyana Yoga at the age of 12 and for Raja Yoga at 18; devoted fully to Yogaprasar during the Vanaprastha Ashrama; founded the 'Visva Yoga Bharati', Borivli. *Publications*: *Raja Yoga Thesis; India's Message of Spirit Force Development*. Address: Visva Yoga Bharati, 5, Vallabhnagar, Borivli, Bombay 92.

SWAMI Ranganathananda, Member, Governing body, Ramakrishna Mission, Belurmath. *b.* Dec. 15, 1908. A Sanyasin of the Ramakrishna Order of Monks; joined the Ramakrishna Ashrama, Mysore in 1926; took orders in 1933; served as Secy. & Librarian of the Ramakrishna Mission Soc., Rangoon, 1939-42; Pres., Ramakrishna Math and Mission Branch at Karachi, 1942-48; Secy., Ramakrishna Mission, New Delhi, 1949-62; cultural lecture tours to Japan, 1958, eight South East Asian countries 1960, 17 European countries, incl. U.K. and U.S.S.R., 1961 and U.S.A., Canada and South American Countries, 1968-69. *Publications*: *Eternal Values for a Changing Society*, to be brought out by the Bharatiya Vidya Bhavan, Bombay; *The Message of the Upanishads*. Address: The Ramakrishna Math, Belurmath, Dt. Howrah, Bengal.

SWAMI Vireswarananda, B.A., President, Ramakrishna Math & Mission, since Feb. 1966. *b.* Oct. 1892; *Educ.*: Presidency Coll., Madras. Joined the Ramakrishna Order, 1916; is an initiated disciple of the Holy Mother Sri Sarada Devi; had his Sanyasa from Swami Brahmanandaji Maharaj, one of the direct disciples of Sri Ramakrishna; served the organisation in various important capacities; joined the Advaita Ashrama, Mayavati (Almora); its Pres., 1927; Trustee, Ramakrishna Math and member, Governing Body of the Mission 1929; Asstt. Secy., 1938; conducted the Bengal Famine Relief, 1943-45; General Secy., 1949-51 and 1961-66; has travelled widely all over the country and also visited Ceylon, Burma, Singapore and Malaysia. *Publications*: English version of the *Brahma Sutras* based on Sankara's commentary and Eng. translation of the *Bhagavad Gita* with the gloss of Sridhara Swami. Address: Ramakrishna Mission, P.O. Belur Math, Dt. Howrah, W. Bengal.

SWAMINATHAN, N. S., M.A. (Econ.), General Manager, South Central Railway, Secunderabad, since July 6, 1968. *b.* Dec. 12, 1913; *Educ.*: Loyola Coll., Madras. Served in former Bengal Nagpur Railway, 1937-42 and 1943-52; held different positions in the Eastern and South Eastern Rlys., 1952-60; became Chief Optg. Supdt., Western & South Eastern Rlys., 1960; Director, Safety and then Dir., Transportation, Rly. Board, till 1967; Gen. Manager, N.E. Frontier Rly., 1967-68; a four-month study tour to Canadian National Rlys. and Canadian Pacific Rlys. under the UN Technical Assistance Scheme, 1953; went on an observation tour of the American Rly., 1967. Address: 99, Old Lancer Lines, Secunderabad 25.

SWAMINATHAN, T., M.A. & Diploma in Modern European Languages (Madras), I.C.S., Ambassador in Belgium, since 1966. *b.* June 18, 1912; *Educ.*: Presidency Coll., Madras. Entered the I.C.S., 1935; served in different

capacities in districts and in the Deptt. of Industries, Labour & Excise, U.P., 1936-51; Textile Commissioner, Govt. of India, Bombay, 1951-54; Minister (Economic), High Commission of India, London, 1954-58; Commissioner General of India for Economic Affairs in Europe, London 1958-61; Addl. Secy.: (Industries), Govt. of India, Min. of Commerce & Industry, 1961-62; Deptt. of Heavy Industries, Min. of Steel & Heavy Industries, 1962-63; Spl. Secy., Min. of Economic and Defence Coordination, July to Aug. 1963; Secy.: Deptt. of Supply and Technical Devpt., 1963-65; Deptt. of Defence Supplies. Min. of Defence, 1965-66; Secy., Min. of Iron & Steel, 1966. Address: C/o External Affairs Ministry, New Delhi.

SWARUP, Jagdish, Solicitor-General of India, since June 1969. *b.* March 1, 1904; *Educ.*: Patna Univ. Started practice at Agra; shifted to Allahabad, 1932; Jr. Standing Counsel to the U.P. Govt., 1948-54; Senior Standing Counsel, 1954-56; delivered the "Tagore Law Lectures" at Calcutta Univ., 1962; was a co-opted member of the Law Commission. *Publications*: *Interpretation of Indian Statutes; Legislation and Interpretation and a Commentary on the Indian Companies Act*, 1956. Address: Ministry of Law, New Delhi.

SWAYAMBU, Subramanya, B.Sc. (Madras) & Dip. in Electrical Technology, M.I.E. (India), Chairman & Mg. Director, Heavy Electricals (I) Ltd., Bhopal, and Director General, Research & Development Organisation for the Electrical Industry, Min. of Indl. Devpt. and Company Affairs, Govt. of India, since Aug. 1967. *b.* Feb. 15, 1911; *Educ.*: Madras and Bangalore; Eisenhower Fellowship, 1957. Was in the Madras Hydro-Electric Deptt. for five years; 20 years in the Central Water & Power Commission; its Director (Research) and member; Technical Director, Heavy Electricals (I) Ltd., 1963-67; General Manager, Feb. to Aug. 1967; Pres., Soc. of Power Engineers; Chairman, Electro-Technical Division Council, I.S.I. Address: Heavy Electricals (India) Ltd., Bhopal.

TALEYARKHAN, Homi J. H., B.A. (Bombay), Ex-Minister for Housing, Tourism, etc., Maharashtra State. *b.* Feb. 9, 1917; *Educ.*: Bombay Univ.; King's Coll. and Middle Temple, London. Member and Chief Whip, Congress Party, Bombay Municipal Corporation, 1948-52; visited U.S.A. on a goodwill and study tour; elected M.L.A., Bombay, 1952-67; Gen. Secy., Leg. Congress Party; was member, Estimates Cttee. for two years; toured Japan, 1956 & Germany, 1960; Chief Whip, Leg. Congress Party and Parl. Secy. to the Chief Minister, 1957; is an Associate delegate of the A.I.C.C.; pioneered a scheme for low-income group holiday resorts; Chairman, Workshop for the Blind; Minister for: Public Health, Small Savings and Tourism, Maharashtra, 1960-62; Food & Civil Supplies, 1962-65. Address: Currimbhoy Manor, 41, Warden Road, Bombay 26.

TALEYARKHAN, Smt. Thrity Homi Jehangir, Padma Shri (1965), Social Worker. *b.* July 22, 1925; *Educ.*: St. Xavier's Coll., Bombay. Member: All India Handicrafts Board, since 1963; Founder and Chairman, Shilpi Kendra; Vice-Pres.: Crafts Council of India; Exec. Cttee., Maharashtra State Women's Council; Govt. Council, Bharatiya Vidya Bhavan; Board of Governors, Instt. of Catering Tech. and Applied Nutrition; member, National Rly. User's Consultative Council; Founder and Gen. Secy., All India Women's Central Food Council; Govt. of India's Rep. to the World Seminar on Women's Problems, in Germany, July-Aug. 1965. Address: Currimbhoy Manor, 41, Warden Road, Bombay-26.

TALWAR, Raj Kumar, M.A., C.A.I.I.B., Chairman, State Bank of India, since March 1, 1969. *b.* June 3, 1922; *Educ.*: St. Patrick's High School, Karachi; D. J. Sind Coll., Karachi; Govt. Coll., Lahore. Joined the Imperial Bank of India, Nov. 1943; Inspector of Branches under Central Office, 1958-59; was Supdt. of Advances at Calcutta and Madras; was Secy. & Treasurer, Hyderabad Circle, Feb. 1965-66; Secretary & Treasurer, Bombay Circle, 1966-68; Managing Director, 1968-69. *Address*: 'Dunedin', Harkness Road, Bombay 6.

TALYARKHAN, Rustom Furdoonji Sorabji, M.A. (Cantab.), Bar-at-Law, Chairman & Chief Executive, Voltas Limited, Bombay. *b.* Aug. 30, 1907; *Educ.*: Clifton Coll. Bristol; Gonville & Caius Coll., Cambridge. Chairman: Henley Cables India Ltd., and Tata-Merlin & Gerin Ltd.; Dir.: Tata Industries Pvt. Ltd., Roche Products Ltd., Scottish Indian Machine Tools Ltd., International Tractor Co. of India Ltd., The Gokak Mills Ltd., Tata Press Ltd., Merck Sharp & Dohme of India Ltd. *Address*: Lyndewode House, Bomanji Petit Road, Bombay-26.

TANDON, Prakash Lal, B.A. (Punjab), B.A. (Com.) (Manch.), F.I.C.A. (Eng. & Wales); Chairman, State Trading Corporation, since May 1968. *b.* June 11, 1911, Lahore. Joined Lever Bros. (India) Ltd., 1937; served Hindustan Mfg. Co. Ltd. in several capacities till he became Vice-Chairman, 1960; Chairman, Vanaspati Mfrs. Assoc.; Pres., Bombay Chamber of Commerce and Indus. 1964-65; Member, Court of Governors, Administrative Staff Coll. of India, Hyderabad; ex-Chairman, Indian Instt. of Management, Ahmedabad; Dir.: Hindustan Steel Ltd.; Central Board of the R.B.I.; Food Corp. of India; led a Marketing and Distribution Team of the N.P.C. of India to the U.K., U.S.A. and West Germany, 1960; Chairman, Hindustan Lever Ltd., 1961-68; visiting Professor, Univ. of California, Los Angeles, 1967. *Publications*: *Punjabi Century, 1857-1947*, 1961. *Address*: "Dakshin Pali", D'Monte Park, Bandra, Bombay 50; 'Mitali', B-6/14, Safdarjang Devpvt. Area, New Delhi-16.

TANGE, H.E. Sir Arthur Harold, Kt. (cr. 1959), C.B.E. (1955), B.A., Australian High Commr. to India and Australian Amb. to Nepal. *b.* Aug. 18, 1914; *Educ.*: Univ. of Western Australia. Bank of New South Wales, 1931; Economics Research, various Commonwealth Dep'ts; Canberra, 1942-46; First Secy., Australia Mission to the U.N., 1946-48; Counsellor, U.N. Dvn., Canberra, 1948-50; Asstt. Secy., Canberra, 1950-53; Australian Min., Washington, D.C., 1953-54; Secy., Dep't. of Ext. Affairs, 1954-65; Member, Australian Delegations: Bretton Woods Monetary Cfee.; U.N. Preparatory Commn.; Gen. Assembly, Econ. & Social Cl., London and New York; Reparations Cfee., Paris; I.L.O., Paris, Montreal and San Francisco; Intn'l. Trade Cfees., London, Geneva and Havana; British Commonwealth Ministerial Cfees.: London, Colombo, Sydney, 1944-64. *Publications*: *Australia Foots the Bill* (joint author). *Address*: The Residence, Australian Compound, Shanti Path, Chanakyapuri, New Delhi,

TARNEJA, Dr. Ram, B.A. (Hons.) (Delhi), M.A. (Delhi & Virginia), Ph.D. (Cornell), Gold Medallist, Director of Personnel, Sahu Jain Industries; Exec. Dir., DRL Rly. Co. Ltd. *b.* Dec. 7, 1931, at Karachi; *Educ.*: L.R.D.A.V. High School, Karachi; S. R. Coll. of Commerce; St. Stephen's Coll., Delhi; Univ. of Virginia, U.S.A.; Cornell Univ. Governor, Indian Instt. of Management, Calcutta; Council Member, All-India Management Assoc.; member, Board of Studies for Commerce Hons. & Post-Graduate, Andhra Univ.; Pres., Patna Management Assoc.; Vice-Chairman, Calcutta Management Assoc.; member, All

India Board of Tech. studies in Management; Faculty Research Fellow, Ford Foundation, 1960-61; Associate Prof. of Management, Duquesne Univ., U.S.A. *Address*: 11, Clive Row, Calcutta 1; 3C/22, Rohtak Road, New Delhi 5.

TATA, Dorab Ratanji Dadabhoy, Industrialist. *b.* Paris, Feb. 26, 1912; *Educ.*: France and England. Dir.: Tata Sons Private Ltd., Tata Industries Private Ltd.; Trustee: Sir Dorabji Tata Trust, Lady Tata Memorial Trust. *Address*: Residence: Taj Mahal Hotel, Bombay 1., Office: Tata Sons Private Ltd., Bombay House, Bruce Street, Fort, Bombay 1.

TATA, Jehangir Ratanji Dadabhoy, Hon. D.Sc. (Allahabad Univ.) (1947), Hon. Air Commodore, I.A.F., Officer of the Legion of Honour, Paris, France (1954), Padma Vibhushan (1955), Industrialist. *b.* July 29, 1904, in Paris. Chairman: Air-India, Tata Sons Pvt. Ltd., Tata Industries Pvt. Ltd., Tata Iron & Steel Co. Ltd., Tata Hydro-Electric Agencies Ltd., Tata Oil Mills Co. Ltd., Telco Ltd., Tata Chemicals Ltd., Tata Ltd., London and Tata Incorp., New York; Tata Institute of Fundamental Research, National Aeronautical Laboratory (Exec. Council), National Centre for the Performing Arts and Homi Bhabha Fellowships Council; Director: Indian Hotels Co. Ltd., Svadeshi Mills Co. Ltd., New India Assurance Co. Ltd. (Vice-Chairman), Investment Corp. of India Ltd.; Pres., The Court of the Indian Institute of Science, Bangalore; Trustee, Sir Dorabji Tata Trust, Lady Tata Memorial Trust (Chairman), J. N. Tata Endowment (Chairman), Gandhi Smarak Nidhi and Kasturba Gandhi National Memorial Trust; member: Atomic Energy Commission; Governing Body, C.S.I.R.; I.A.C.; Exec. Cttee., International Air Transport Assoc.; first pilot to qualify in India holding a private licence since March 1927; Solo flight India-England, 1930; founded Tata Airlines, 1932; and piloted inaugural service Karachi-Bombay, Oct. 1932. *Address*: Office: Bombay House, Bruce Street, Bombay 1. Residence: The Cairn, Altamount Road, Bombay 26.

TATA, Naval Hormusji, Padma Bhushan (1969), Industrialist. *b.* Aug. 30, 1904, Bombay; *Educ.*: Bombay Univ. Chairman: Tata Group of Textile Mills, Tata Group of Hydro-Electric Companies, Indian Cancer Society, Aux. Forces Welfare Asso.; Dy. Chmn.: Tata Sons Pvt. Ltd., Tata Industries Pvt. Ltd., Tata Oil Mills Co. Ltd. (Vice-Chmn.); Director: New India Ass. Co., Telco. Ltd., National Rayon Corp., Investment Corp. of India Ltd.; Pres.: Employers' Federation of India, National Institute of Labour Management; Trustee: Sir Dorabji Tata Trust, Sir Ratan Tata Trust, N. M. Petit Trust; Member: The Millowners' Assoc., Indian Cotton Mills Federation, Governing Body, I.L.O., Geneva. *Address*: Residence: Tata House, Waudby Road, Fort, Bombay 1; Office: Tata Industries Pvt. Ltd., Bombay House, Bruce Street, Fort, Bombay 1.

TAWDE, Dr. Nanasaheb Ramji, B.A. (Hons.), B.Sc. (Bombay), MSc. (Bombay), Ph.D. (Lond.), F. Inst. P. (Fellow of Instt. of Physics, Eng.), F.N.I. (Fellow of Nat. Instt. of Scs., India), F.A.Sc. (Fellow of the Indian Academy of Scs.), Vice-Chancellor, Marathwada Univ., since June 19, 1964. *b.* Jan. 15, 1898; *Educ.*: Gen. Educ. Instt., Dadar; St. Xavier's Coll., Bombay; Royal Instt. of Sc., Bombay; London Univ.; Univ. of Stockholm (Sweden). Pres., Physics Sec. of Indian Sc. Cong., Lucknow, 1953; Fellow, Bombay Univ.; member: Syndicate, Senate, Academic Council and Board of Studies, Karnatak Univ.; Ag. Vice-Chancellor, Karn. Univ., 1962; member, Instt. of Nuclear Engrs., London, 1960; Council member:

Saha Inst. of Nuc. Phys., Calcutta, Ind. Acad. Sc., Inter-Univ. Board, India & Ceylon. *Publications* : About 115 on modern problems of Physics; Author of *Jeevan Vidnyan*. *Address* : Marathwada Univ., Aurangabad (Deccan).

THACKERSEY, Krishnaraj Madhavji Damodar, B.A., J.P., Millowner & Merchant. *b.* May 20, 1909; *Educ.* : Bharda New High School, Bombay; Elphinstone Coll., Bombay. Is Chairman: Scindia Steam Nav. Co. Ltd., Crown Spg. & Mfg. Co. Ltd., Indian Mfg. Co. Ltd., Hindoostan Spg. & Wvg. Mills Co. Ltd., National Machinery Mfrs. Ltd., Indian Mercantile Insurance Co. Ltd. and Siemens India Ltd.; Director: Bank of India Ltd., Central India Spg. & Wvg. & Mfg. Co. Ltd., Gwalior Rayon Silk Mfg. (Wvg.) Co. Ltd., National Rayon Corp. Ltd., Andhra Valley Power Supply Ltd. and several other companies; Chairman: Bombay Millowners' Assoc., 1938 and 1942; Cotton Textile Control Board, 1943-48; Indian Cotton Mills Federation, 1960; leader, delegation of Textile Millowners to U.K., 1947; Trustee: Bombay Port Trust, 1943-57, Bombay Hospital Trust, besides other charity trusts; Pres., Nathdwara Temple Board, since 1963; member, Cttee. of Management, C.C.I. Ltd. *Address* : Vithaldas Chambers, 16, Apollo St., Bombay 1.

THACKERSEY, Dr. Smt. Premila Vithaldas, D. Litt. (Banaras Hindu Univ.) and (S.N.D.T. Univ.), Vice-Chancellor, S.N.D.T. Univ., since 1957; Chairman, Inter-Univ. Board of India & Ceylon, 1966. *b.* Jan. 8, 1894; *Educ.* : Studied English and Sanskrit at home. Went on a world tour, 1919; began taking interest in social and educl. activities, 1926; nominated Vice-Chancellor, S.N.D.T. Univ., 1951; elected in 1957, 1960, 1963 and 1966; Chairman: Kasturba Gandhi National Memorial Trust; Prof. J. P. Trivedi Memorial Trust; Lady Northcote Hindu Orphanage and a prominent worker of Vanita Vishram. *Address* : Parnakuti, Yeravada Hill, Poona 6.

THADANI, Motiram Rijhumal, M.Sc. (Texas), Ambassador of India in Denmark, since April 14, 1969. *b.* Oct. 13, 1915; *Educ.* : A & M Coll., Texas. Director: Min. of Food, 1946-47; Industry and Supply, 1947-48; Rehab., 1948; Community Devpt., 1955-56; Charge d'Affaires, Embassy of India, Khartoum, 1957-59; Dy. Secy., Min. of Ext. Affairs, 1960; First Secy., Emb. of India, Peking, 1961-63; Charge d'Affaires, Emb. of India, Helsinki, 1963-66; Dir., Min. of Ext. Affairs, 1966-69. *Address* : C/o Ministry of External Affairs, New Delhi.

THANU PILLAI, A., B.A., B.L., Ex-Governor of Andhra Pradesh. *b.* July 1885 in Trivandrum; *Educ.* : Maharaja's Coll. & Law Coll., Trivandrum. Set up practice in 1920s; took interest in public affairs; M.L.A., Travancore, 1928; has been M.L.A., Travancore-Cochin and Kerala ever since with a short break; was Pres., Travancore State Cong.; Chairman, State Cttee. of the P.S.P.; Chief Min., Travancore, 1948-49; Travancore-Cochin, 1954; Chief Min., Kerala State, Feb. 1960-Sept. 1962; Governor of Punjab, Oct. 1962-May 1964; Governor Andhra Pradesh, 1964-68; was Chief Editor, *Kerala Janata*. *Address* : Trivandrum.

THIAGARAJAN, Karumuttu, a leading Textile Industrialist of South India. *b.* 1893; *Educ.* : St. Thomas' Coll., Colombo. Joined the "Morning Leader" as an apprentice; reported on labour conditions in the plantations in Ceylon; improved the terms and conditions of employment of estate labour; joined the Congress, 1914; Secy., Provincial Cong., 1916; member, A.I.C.C., 1917; led the agitation against the introduction of Hindi in Tamil Nadu, 1937; Thiagarajar: High Schools, Coll.,

Coll. of Preceptors, & Coll. of Engg., Madurai; Thiagarajar Polytechnic, Salem and Alagappanagar; Sree Visalakshi Kalasalai, A. Thekkur (Ramnad) etc.; Mg. Editor, *Tamil Nadu*, a leading Tamil Daily published from Madurai. *Address* : "Meenakshi", Thirupparankundram Road, Madurai 3.

THIMMA REDDY, Peddireddi, B.A., Minister for Agriculture and Animal Husbandry, Andhra Pradesh, since March 1967 and for Land Revenue from Aug. 1969. *b.* Nov. 24, 1914; *Educ.* : Theosophical Coll., Madanapalli (Madras Univ.). Entered politics while a student; organised Summer Schools in the Rayalaseema districts; was Vice-Pres., Andhra Rashtra Ryth Sangham; its Pres., 1940-41; elected Vice-Pres., Andhra Congress Cttee., 1946; was Editor, Telugu Weekly *Vahini*, the mouthpiece of peasants; courted jail in the 1942 freedom movement; elected M.L.A., Madras, since 1952; Minister, Andhra, 1953; Minister for Food and Agriculture, Sanjiva Reddy's Cabinet; Chairman, A.P. Khadi & Village Industries Board, 1962-64; visited the U.K. as an agricultural expert, 1961; became Pres., A.P.C.C., 1964. *Address* : Hyderabad.

THOMAS,* T. V., B.A., B.L., Minister for Industries, Kerala. *b.* Jan. 2, 1910; *Educ.* : Took law degree. Started as an active trade unionist; was a prominent worker of the State Congress; joined C.P.I.; detained on a number of occasions; member, Kerala State. Exec., C.P.I.; was Pres. of a number of trade unions and Chairman, Alleppey Municipal Council; elected M.L.A., Travancore-Cochin 1952 and 1954; was leader of the Opposition; Minister for Labour and Transport, 1957-59; elected to the Kerala Assembly from Alleppey, 1967. *Address* : Trivandrum.

TIDKE, Narendra Mahipati, B.A. (Hons.) (Nagpur), LL.B., Minister for Labour, Maharashtra State, since Dec. 5, 1963 and also for Rural Development from Aug. 1969. *b.* Nov. 2, 1920; *Educ.* : Nagpur. Was Org.ing Secy., All India Students Congress; Chairman, Steering Cttee., 1st All India Session of National Union of Students; Secy., Youth wing of Nagpur Pradesh Cong. Cttee.; was jailed for participating in 1942 freedom struggle; was Gen. Secy., Nagpur Pradesh I.N.T.U.C.; Pres.: Rashtriya Mill Mazdoor Sangh, Nagpur; Ballarpur Paper Mill Mazdoor Sabha; was Secy., All-India National Textile Workers' Federation; Indian workers rep. at 39th Session of I.L.O. at Geneva and participated in the Study Cfce. at Oxford, 1956; was member, Nagpur Univ. Court; Secy., Maharashtra Rajya Shikshan Sanstha; M.L.A., from Saoner Constituency, since 1957; Dy. Min. for Rural Devpt., 1960-63. *Address* : Sachivalaya, Bombay 32.

TOBACOWALA, Akhtarali Hasanali, Industrialist. *b.* January 17, 1925; *Educ.* : B.A., 1944; M.A., 1946; LL.B., 1947, Bombay Univ.; M.B.A., 1952, Univ. of Chicago. Trained & worked in U.S.A. as Industrial Engineer, 1952/53; Director: Tata Industries Pvt. Ltd.; Tata-Johnson Ltd., Calcutta; Tata Services Ltd.; Tata Press Ltd.; Member, Exec. Cttee., Tata Consultancy Services; Vice-Pres., Assoc. of Indian Automobile Manufacturers; Trustee: Heras Society; Member, Governing Council, The Indian Roads & Transport Development Assoc. Ltd. *Address* : Office: Bombay House, Bruce St., Fort, Bombay 1; Residence: 51 Las Palmas, Little Gibbs Road, Malabar Hill, Bombay 6 WB.

TRIPATHI, Kamakhya Prosad, M.A., B.L., Minister of Finance and Labour, Assam State, since Mar. 1967. *b.* Feb. 1, 1910; *Educ.* : Cotton Coll., Gauhati; Calcutta Univ. Started career as a legal practitioner at

*Resigned from Ministership on Oct. 17, 1969.

Tezpur; Secy., Tezpur Town Congress Cttee., 1937-40; courted jail in freedom movement; elected Pres.: Tezpur D.C.C., 1946-53; Assam Branch of the I.N.T.U.C., 1947; Indian National Plantation Workers' Federation, since 1948; member, A.I.C.C., since 1948; represented India in several international confes.; represented Indian workers in I.L.O., 1953-57; elected M.P., 1952; Vice-Pres., I.N.T.U.C., 1950-53; General Secy., 1953-57; was elected M.L.A., Assam, since 1952; Min. of Planning, Industries, Labour, etc., 1957-62. *Address*: Minister for Finance and Labour, Assam State, Shillong.

TRIPATHI, Kamalapati, Shastri (Kashi Vidyapith), Deputy Chief Minister, in-charge of Irrigation and Power, U.P., since Feb. 27, 1969. *b.* Bhadra Shukla 5, 1962 (Vikram); *Educ.*: Central Hindu School and Kashi Vidyapith. Was Editor, *Aj* and *Sansar* (Hindi dailies) for more than two decades; courted jail for active part in freedom movement; awarded the Mangala Prasad Puraskar for *Bapu Aur Manavta*; elected M.L.A., U.P., since 1936; was member, Constituent Assembly and one of the members of Constitution Translation Sub-Cttee. (Hindi); was Min. for Irrigation and Information and later for Home, Education & Information, U.P.; Pres., U.P.C.C. *Publications*: Hindi: *Maurya Kaleem Bharat*; *Islami Duniya ka Sartaj*; *Bapu Aur Manavta*; *Bapu Aur Bharat*; *Patra Aur Patrakar*, *Bapu Ke Charnon Men*, etc. *Address*: Aurangabad; Varanasi.

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Legislation in India, 1945; *Industrial Capital in India*, 1946; *Role of Freight in Export Promotion*, Bombay, 1969. *Address*: Office: Scindia House, Ballard Estate, Bombay 1; Residence: Raj Mahal, Juhu, Bombay 54.

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UKIL, Ranada, Painter; Ex-Lecturer, Women's Coll., Banaras Hindu Univ. and Dir., Ukils' School of Art, Banaras. *b.* Sept. 5, 1900; *Educ.*: Govt. Coll. of Art, Calcutta and Royal Coll. of Art, London; was Govt. of India scholar; specialized in water colour painting under Dr. Abanindra Nath Tagore, Indian Soc. of Oriental

Art, Calcutta. Was commended twice to do the Mural Painting in India House, London; was honoured by Queen Mary who bought his painting "Shahjahan's Dream of the Taj" in an Arts Exhibition, London. *Address*: Ukil School of Art, Bhelupura, Varanasi (Banaras).

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VARADARAJAN, Dr. M., M.A., M.O.L., Ph.D. (1947), Tamil Essayist, novelist & critic, Prof. of Tamil, Univ. of Madras. *b.* 1912; *Educ.*: Madras Univ. Chairman, Board of Studies in Tamil, Sri Venkateswara Univ., Tirupati and Madras Univ.; Member: Academic Council and Senate, Madras Univ.; Venkateswara Univ., Tirupati; Board of Studies in Tamil, Annamalai, Mysore and Bangalore Univs.; Sahitya Akademi, Delhi; Bureau of Tamil Publications, Madras; Tamil Devpt. Council, Govt. of Madras; got the Madras State Award during the centenary celebrations of the 1857 uprising, for his services to Tamil literature. *Publications*: Novels, short-story collections, biographies, works of literary criticism, etc. *Address*: Chellammal Street, Madras 30.

VARMA, Bhagwati Charan, B.A., LL.B., Novelist and Poet. *b.* Aug. 30, 1903; *Educ.*: Christ Church Coll., Kanpur; Allahabad Univ. Started writing poems, 1918 and short stories, 1923; practised law, 1929-31; engaged in writing 1931-37; conducted a weekly, *Vichai*, Calcutta, 1940-42; Scenarist in Bombay Talkies, 1942-46; Editor-in-Chief, *Daily Navajivan*, Lucknow, 1948-49; Hindi Adviser, A.I.R. at Lucknow, 1950-53, 1955-57, at Delhi, 1953-55; got Sahitya Akademi Award on *Bhoote Bishechitra*, 1962. *Publications: Prem Sangeet; Manava; Rangon De Moh*, etc. (Poetry); *Instalment, Do Banke, Rakh Aur Chingeri* (short stories); *Patan, Chitralkha, Terhe Mertie Raste, Apne Khianna, Bhoole Bisre Chitra, Samarthyaa aur Seema, Rekha, Sidhi Sacchi Batai*, etc. (Novels); *Bujhata Deepak and Rupiya Tumhe Khagaya* (Plays). *Address*: Chitralkha, Mahanagar, Lucknow.

VARMA, Dr. Dharendra, M.A. (Allahabad), D. Litt. (Paris), Hindi Scholar; Educationist. *b.* May 17, 1897; *Educ.*: Dehra Dun, Lucknow, Allahabad and Paris. Patron, Bharatiya Hindi Parishad; Univ. Prof., Allahabad Univ., 1924-59; member: Sahitya Akademi, Delhi; Hindustani Academy, Allahabad; Linguistic Soc. of India, Poona; Chief Editor, Hindi Encyclopaedia, Varanasi, 1959-61; Prof. of Philology and Linguistics, Univ. of Sagar, Sagar (M.P.), 1961-65; Vice-Chancellor, Jabalpur Univ., 1966-68. *Publications: History of Hindi Language—Hindi; La Langue Braj—French; Braj-*

bhasa Grammar; Letters from Europe—Hindi; Vichardhara—Collection of essays; Madhyadesha; My Diary; Hindi Sahitya Kosha, Vol. I and II; Hindi Sahitya, Vol. I and II; Hindi Vishvakosha, Vol. I, 1960, Vol. II; Prachin Hindi Patra Sangraha; Hindi Sahitya ka Brihat Itihas, Vol. II. Address: "Shri Chandraloka," 13, Bund Road, Allahabad 2.

VARTAK, Hari Govindrao, B.A., LL.B., Minister for Food, Civil Supplies, Khar Lands and Fisheries, Maharashtra, since March 1967. *b.* Feb. 9, 1914; *Educ.*: Bordi (Thana Dist.) & Poona. Started his public life as Sarpanch of Virar (1940); became Pres., Thana Dist. Local Board and Vice-Pres., Bombay Divisional Devpt. Council; Chairman, Maharashtra Housing Board (1960–62); was closely associated as Pres. with many educational, cultural and agricultural institutions in Thana Dist.; was Gen. Secy., M.P.C.C.; is its Treasurer; Deputy Minister, Maharashtra (1962–66). *Address*: A/6, Fore-shore Road, Bombay 1.

VASAVADA, Shamprasad Rupshanker, M.A., Padma Bhushan (1968), M.P. (Rajya Sabha), Ex-Pres., National Federation of Indian Railwaymen; member: Working Cttee., I.N.T.U.C.; National Plng. Council; National Commission for Labour. *b.* Feb. 16, 1903; *Educ.*: Rajkot; Bahauddin Coll., Junagadh. Joined the Textile Labour Assoc., Ahmedabad, 1929; its Secy., 1946; Municipal Councillor, Ahmedabad, 1936–50; M.L.A., Bombay, 1950 and 1952; was Pres., Indian National Textile Workers' Federation for six years; Pres., I.N.T.U.C., 1954–57; member: Central Adv. Council for Industries; Rly. Accidents Inquiry Cttee., 1968; was member: Wkg. Group, N.I.D.C. and was member, Bonus Commission; Dir.: Air India; Indian Airlines; Indus. Fin. Corp'n.; Ex-Dir.: Sindri Fertilizers; was Gen. Secy., I.N.T.U.C.; Chairman, National Textile Corp'n. *Address*: Gandhi Majoor Sevalaya, Bhadra, Ahmedabad.

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VON MIRBACH, H.E. Freiherr Dietrich, Amb. of the Federal Republic of Germany to India. b. Sept. 20, 1907; *Educ.*: Univs. of Marburg, Freiburg, Lausanne and Koenigsberg. Joined the Min. of Foreign Affairs, 1935; Embassy of Germany in Ankara, 1935-37; Consulate Gen. in Danzig, 1937-38; Min. of Foreign Affairs, 1938-39; Third Secy., Legation of Germany in Bucharest, 1939-43; First Secy., Minister of Foreign Affairs 1943-45; Bureau in charge of Trade Agreements, Foreign Trade Assoc. in Frankfurt/Main, 1949-51; Federation of German Chambers of Industry and Commerce, Bonn; Min. of Foreign Affairs, 1951-52; First Secy. and Counsellor, F.R.G. Embassy, Cairo, 1952-55; Min. of Foreign Affairs, 1956-59; F.R.G. Amb., Djakarta, 1959-63; Amb. on Spl. Duty, Min. of Foreign Affairs, 1963. *Address*: 6, Shantipath, Chanakyapuri, New Delhi.

WADIA, Ardeshir Ruttonji, Hon. D.Litt. Bar-at Law, Padma Bhushan (1961), President, Indian Council of Social Welfare for 1968 & 1969. b. June 4, 1888; *Educ.*: St. Xavier's High School and Wilson Coll., Bombay; Middle Temple, London; St. Catherine's, Oxford; Fitzwilliam Hall, Cambridge. Prof., Wilson Coll., Bombay, 1914; Lecturer in Psychology, Bombay Univ., 1914-16; Prof. of Philosophy, Mysore Univ., 1917-42; D.P.I., Mysore (Retd.); Principal, Victoria Coll., Gwalior (1946-49); Pro-Vice-Chancellor, M.S. Univ., Baroda, 1949-52; Dir., Tata Institute of Social Sciences, 1953-62; Indian Delegate to UNESCO Cfce., 1952 & 1954; M.P. (Rajya Sabha), 1954-66; member, Univ. Grants Commission, 1960-68. *Publications*: *The Ethics of Feminism*; *Pragmatic Idealism in Contemporary Indian Philosophy*, *Zoroaster, Religion as a Quest for Values*; *The Future of English in India*; *The Philosophy of Mahatma Gandhi*. *Address*: Kalpana, 96, Netaji Subhas Road, Bombay.

WADIA, Neville Ness, Chairman: Nowrosjee, Wadia & Sons (Private) Ltd.; The Bombay Dyeing & Mfg. Co. Ltd.; National Peroxide Ltd.; Sturdia Chemicals Ltd.; Botanium Ltd. b. Aug. 22, 1911; *Educ.*: Malvern & Trinity, Cambridge. *Address*: C/o Neville Wadia Pvt. Ltd., 72, Pedder Road, Bombay 26; *Office*: The Bombay Dyeing and Mfg. Co. Ltd., Neville House, Ballard Estate, Bombay 1.

WADIA, Smt. Sophia, Padma Shri (1961), Editor, *The Aryan Path*, 40th Vol., and *The Indian P.E.N.*, 35th Vol., Bombay. b. Sept. 13, 1901; *Educ.*: Lycee Molieres, Paris; Columbia Univ., New York; School of Oriental Studies, London. Associate of The United Lodge of Theosophists; Lecturer, Founder-Organiser of the P.E.N., All-India Centre; a Founder and Pres. of the Indian Inst. of World Culture, Bangalore; Vice-Chairman, Buddha Jayanti Charities Society; and worker in women's educ., social and cultural movements. *Publications*: *The Brotherhood of Religions*; *Preparation for Citizenship*. *Address*: 40, New Marine Lines, Bombay 20 BR.

WADUD, Mohammed Abdul, Industrialist, b. January 19, 1921; *Educ.*: Senior & Higher Cambridge, B.Sc., Royal Institute of Science, Bombay. Director: Tata Industries Private Ltd.; Tata Oil Mills Co. Ltd.; Lakme Limited; Merek Sharp & Dohme of India Ltd.; etc. Member: Development Council for Oils, Detergents & Paints, Govt. of India; Governing Body, Protein Foods Assoc. of India, Bombay; Pres.: Indian Soap & Toiletries Makers' Assoc., Calcutta; Pres., All India Food Preservers' Assoc.; Representative of Tomco on the Vanaspati Manufacturers' Assoc. *Address*: *Office*: Bombay House, Bruce St., Fort, Bombay-1; *Residence*: 17, "Mayfair", Veer Nariman Road, Churchgate, Bombay-20.

WAGLE, Nityanand Mangesh, M.A. M.Sc. (Econ.), Managing Director, Greaves Cotton & Co. Ltd., since 1957. b. Aug. 16, 1914; *Educ.*: Univs. of Banaras, Bombay, London and Oxford. Entered I.C.S., 1938; served in the Dist. of Gujarat, 1938-42, and in the Secretariat at Bombay, 1942-47; retired from the I.C.S., 1947; Asstt. Manager, Greaves Cotton & Co. Ltd., 1947-50; Director, 1950-57; Chairman: Crompton Greaves Ltd; State Industrial and Investment Corporation of Maharashtra; Director: Bombay Dyeing & Manufacturing Co. Ltd., Bokaro Steel Ltd., Central Bank of India Ltd., Tata Hydro Electric Power Supply Co. Ltd. and other companies; elected Pres., Bombay Chamber of Commerce and Industry, 1961 & 1968; Pres., Assoc. Chambers of Commerce and Industry of India, 1968-69;

Vice-Pres. and Chairman, Western Region, Employers' Federation of India. *Address*: 17A, Carmichael Road, Bombay 26.

WANCHOO, Niranjan Nath, M.A. (Punjab), O.B.E. (1945), I.C.S., Secy., Min. of Ind. Development & Company Affairs, Govt. of India, since Aug. 1966. *b.* May 1, 1910; *Educ.* Govt. Coll., Lahore; King's Coll., Cambridge. Joined the I.C.S., 1934; served in Bihar and Orissa; later in the Commerce and Food Deptts. of the Govt. of India; Imperial Defence Coll., London, 1947; D. G. of Ordnance Factories, 1948; Jt. Secy., Min. of Defence & Conlrr.-Gen. of Defence Production, 1948-57; member, Univ. Grants Commn., 1958-61; Secy., Min. of Fin. (Deptt. of Expenditure), 1958-61; Secy., Min. of Iron & Steel, July '61-Aug. '66. *Address*: 4, Akbar Road, New Delhi.

WANKHEDE, Sheshrao Krishnarao, B.A., Bar-at-Law, Minister for Finance, Law, Judiciary & Small Savings, Maharashtra, since March '67. *b.* Sept. 24, 1914; *Educ.*: Morris Coll., Nagpur; called to the Bar, 1937. An educationist, sportsman and agriculturist; unanimously elected Chairman, Nagpur Dist. Council, 1938-48; jailed for individual Satyagraha, 1940; member, Nagpur Univ. Exec. Council, 1947; Mayor of Nagpur Corpn. for three terms; Indian rep. at the F.A.O. Cfee., 1953; a member, Indian Central Cotton Cttee. for 12 years; Ex-Vice-Chairman, M.P. Electricity Council; Dy. Speaker, M.P. Leg. Assembly, 1952; was Dy. Speaker in enlarged Bombay State's first Assembly; Min. for Png., Devpt., Electricity and Industries, Bombay State, 1959-60; Min. for Fin., Maharashtra, 1960-62; Min. for Industries, Law & Judiciary, 1962-63; Minister for Finance, Dec. '63-Feb. '67. *Address*: Sachivalaya, Bombay 32.

WARRIER, P. Krishnan Kutty, Managing Trustee, Arya Vaidya Sala, Kottakkal, since 1953. *b.* 1921 at Kottakkal; *Educ.*: Rajah's High School; Arya Vaidya Pathasala. Has been with the Arya Vaidya Sala since 1947; is its Addl. Chief Physician; member, Exec. Cttee., All India Ayurvedic Congress; a Vice-Pres., Kerala Ayurveda Mandalam; nominated member: "Panel on Ayurveda and other Systems of Medicines", Govt. of India, 1965-67; Kerala State Ayurvedic Advisory Cttee.; has developed the Arya Vaidya Sala Kathakali troupe into one of the best in the country. *Address*: Arya Vaidya Sala, Kottakkal (Kerala State).

WELLINGDON*, B., B.A., Minister for Health, Kerala, since March 1967. *b.* 1928. Was a teacher for some time; entered politics through the Students' Congress; was one of the pioneers of the I.N.T.U.C. movement in Quilon (1952); associated with the Anti-Communist Front in 1956 and was elected its Kerala Pres.; broke away from the Congress on account of its anti-peasant policies, 1961; was Secy., Malanad Karshaka Union for some time; General Secy., Karshak Thozhilali Party from its inception, 1962; elected to the State Assembly from Kalpettah Constituency, 1967. *Address*: Trivandrum.

YAGNIK, Bhanushankar Manchharam, Minister for Prohibition, Maharashtra, since March 1967. *b.* Feb. 1, 1915; *Educ.*: Saldi (Bhavnagar Dist.) and Bombay. Gen. Secy., B.P.C.C., 1953-60; Pres., B.P.C.C., 1960-63; member A.I.C.C. since 1950; founded Bombay Youth League, 1930; associated with various social organisations; elected to the Bombay Municipal Corporation, 1938 and 1948; elected M.L.A., Bombay from

Fanaswadi, Girgaon and Kumbharwada Constituencies, 1952 & 1957; re-elected M.L.A., Maharashtra from Kumbharwada (Bombay) Constituency, 1962 and 1967; Edited and published *Audicha Udaya* monthly; was on the editorial staff of *Yug Prabhav & Sangam* Gujarati and Hindi Weeklies. *Publications*: *Hruday Manthan* (Experiences in Jail in Gujarati). *Address*: 'Satpuda', Nepean Road, Malabar Hill, Bombay 6.

YASHPAL, B.A. (Lahore), 'Sahitya Varidhi', 1966, leading Hindi writer. *b.* Dec. 3, 1903, at Ferozepur Cantt.; *Educ.*: Gurukul Kangri and National Coll., Lahore. Courted jail in the freedom movement; started *Viplava*, a monthly magazine; awarded 'Sahitya Varidhi' in 1966 by Sahitya Sammelan. *Publications*: Numerous short story collections, novels, travel books; book of reminiscences, humorous essays; One Act Plays and socio-political books; his works have been translated into all Indian and some foreign languages; e.g., *Divya, Amita, Deshdrohi, Manushya Ke rup, Jutha Sach; Pinjare-ki-Uran, Chitra ka Shirshak, Gyandan, Abhishapt; Gandhivad Ki Shav Pariksha* (Post-mortem of Gandhism). *Address*: Res.: 335-B, Mahanagar, Lucknow; Office: 'Viplava', 21, Shivaji Marg, Lucknow.

YASIN, H.E. Shaikh Anas Youssef, Ambassador of Saudi Arabia to India. *b.* May 1, 1934, in the city of Taif; *Educ.*: Victoria Coll., Cairo; Univ. of California, Berkely. Appointed as head of the Conferences & Islamic Affairs, 1960; transferred to the foreign office with the rank of Ambassador, 1963; appointed Chief of Public Relations Office in New York; Ambassador and alternative Rep. of Saudi Arabia to U.N., 1966-67. *Address*: 1, Eastern Avenue, Maharani Bagh, New Delhi 14.

YAZDANI, Dr. Golam, Minister for Passport and Civil Defence Branches, Home Department, West Bengal, since Feb. 1969. *b.* 1917 in Boraghachi, Chanchal, Malda Dist. Worked as a doctor in a Calcutta hospital; elected to the West Bengal Leg. Assembly, from Kharba since 1957; is a writer in medical journals. *Address*: Writers' Buildings, Calcutta.

ZAKARIA, Dr. Rafiq, M.A. (1st class), Ph.D. (London), Bar-at-Law, Chancellor's Gold Medalist (Bombay Univ.), Minister for Public Health & Wakfs, Maharashtra, since March 1967. *b.* April 5, 1920; *Educ.*: Anglo-Urdu High School, Poona; Ismail Yusuf Coll. Govt. Law Coll. Bombay; London Univ. and Lincoln', Inn. Political correspondent on Indian affairs for the 'Observer' (London), 1947-48; Pres.; London Majlis 1945-47; Chairman, Federation of Indian Students' Soc., in British Isles and Europe, 1947; Pres.: Indo-Arab Soc.; Maharashtra Coll. of Arts & Sci.; Chairman: Indian Unity Centre; Founder and Pres., Maulana Azad Coll. of Arts, Sc. & Commerce, Aurangabad; has travelled widely; has written for several Indian and foreign newspapers and broadcasts often; nominated M.L.C., Maharashtra, June, 1960; apptd. Cong. Chief Whip to the Maharashtra Leg. Council, July 1960; M.L.A., Maharashtra from Aurangabad constituency, 1962 & 1967; member: Exec. Cttee., M.P.C.C., and A.I.C.C.; Dy. Min. for Bldgs. & Communications, Maharashtra, 1962-64; is Advocate, Bombay High Court; Indian rep. to the 20th session of the U.N. Gen. Assembly, Oct. 1965; Min. for Urban Devpt. & Wakfs, 1964-67. *Publications*: *A Study of Nehru; Razia: Queen of India*. *Address*: "Rylestone," 8-B, Carmichael Road, Bombay 26.

* Has since resigned.

LATE PARTICULARS

Under this we publish articles and give notes on items which could not be included in the body of the text.

AWARDS AND PRIZES—(contd. from page 140)

Sangeet Natak Akademi Awards (1968):

The 12 recipients are:

Music: Alathur S. Srinivasa Iyer (Carnatic vocal), K. S. Narayanaswami (Carnatic veena), Mogubai Kurdikar (Hindustani vocal) and Ustad Mushtaq Ali Khan (Hindustani sitar); **Dance:** Kamala (Bharatanatyam), Kurichi Kunjan Panicker (Kathakali), Chinta Krishnamurthi (Kuchipudi) and Damayanti Joshi (Kathak); **Drama:** Badal Sarkar (playwriting—Bengali), Mohan Rakesh (playwriting—Hindi), Jashwant D. Thaker (acting—Gujarati) and late Phani Bhushan Vidyabinode (acting—traditional theatre).

Arjuna Awards (1968): The seven recipient Sportsmen:

Athletics: Capt. Joginder Singh and Kumari Manjit Walia; **Basket Ball:** Gurdial Singh; **Boxing:** Hav. D. Swamy; **Cricket:** E. A. S. Prasanna; **Hockey:** Balbir Singh of Services; **Shooting:** Princess Rajyashree Kumari of Bikaner.

Children's Books

The names of the authors together with those of the books and their languages are: A. P. Chowdhury, *Kalidas*, (Assamese); Nani Gopal Chakraborty, *Amader Pratibesi Keet Patanga* (manuscript), (Bengali); A. I. Prakash Bharti, *Chalo Chand Par Chalen* (manuscript) (Hindi); Ved Mittra, *Vigyan Ke Harokhe Se Tubhari Dunia* (manuscript), (Hindi); Rasik Shah, *Shakteepun Parmanu* (Gujarati); Sisu Sangamesh, *Nanna Gelia Japanada Taro* (Kannada); Rasik Shah, *Manushyan Kurangil Ninno* (Malayalam); Devidas Bagul, *Pisara* (Marathi); Anant Patnaik, *Saltukutuku Surjatia Kiashe* (Oriya); Dhanwant Singh Sithal, *Dharti Ka Shingar* (Punjabi); Pradhudas Brahmanchar, *Bapu Darshan* (Sindhi); V. Lakshimpatirao, *Swatantra Bharati* (manuscript) (Telugu); R. Aiyaswami, *Balaramayanam* (Tamil); and Saeed Ahmed Siddiqui, *Lo Ek Kahani Suno* (manuscript) (Urdu).

Hindi Writers

The award of prizes to 14 Hindi writers of non-Hindi speaking States:

The names of authors, their mother tongue within bracket & the names of books respectively are: Dr. Sarojini Mahishi (Kannada), *Atithi Satkar* (first prize); Gurunath Joshi (Kannada), *Kannad Sahitya Ki Roop-rekha* (second prize); M. G. Venkatakrishnan (Tamil), *Tirukkural* (first prize); Suryanarayana Bhanu (Telugu), *Telugu Ki Aadhunika Kavya Dhara* (first prize); Dr. N. S. Dakshinamurthi (Telugu) *Kump Ramayana Ki Katha* (second prize); A. Ramachandra Dev (Malayalam), *Tulsi Aur Tunchan* (first prize); Smt. P. Lakshmikuttyamma (Malayalam), *Teen Ekanki* (second prize); Pranav Kumar Bandopadhyaya (Bengali) *Athva* (first prize); Smt. Kanak Singh (Bengali), *Mahua* (second prize); Krishna Diwakar (Marathi) *Hindi Sahitya: Shodh aur Samiksha* (first prize); Anant Gopal Shevde (Marathi) *Indra Danush* (second prize); Abid Ali (Gujarati) *Mazdoor Se Minister* (first prize); Gayan Singh Mann (Punjabi) *Mrig Trishna* (first prize); Suresh Chandra (Punjabi) *Praval* (second prize)

Basic Literature

The 17 prize winners and title of their works in different languages are:

Smt. Seethalakshmi, *Samudhaya Valarchi* (Tamil); Gourish Chandra Mukherjee, *Nijere Haraye Khunji* (Bengali); Jawahar Lal Srivastava, *Samudaiik Sampatee Nirman Mein Panchayatoni Ki Bhumi*, (Hindi); S. N. Ahmed, *Panchayati Raj Taraqi Ke Raste Par* (Urdu); P. D. Maheshwari, *Grameen Vikas Tatha Barhe Hue Rozgar Ke Liye Grameen Jana Shakti Ka Upyog* (Hindi); Prabin Kumar Nowholia Phukan, *Swapan Dithak Holo* (Assamese); Smt. Santha Nair, *Samuhya Kshema thinde Naraya Veru* (Malayalam); Gouri Shankar Biswas, *Palli-Mangale-Pusti Parikalpna* (Bengali); Jayanti D. Shah, *Bhoomi Danani Bhitarma* (Gujarati); F. S. Bhandage, *Jeevanta Jana* (Kannada); Ranjit Singh, *Panchayati Raj Atee Kheti Utpadan* (Punjabi); Smt. Valluri Kamala, *Cheedapurugulu* (Telugu); Jagannath Mohanty, *Saphala Sahajogar Kahani* (Oriya); Bira Kishore Das, *Gotie Gaunra Kahani* (Oriya); A. Sivasubramaniam, *Vilai-porul Virpanikku Oru Kooturavu Sangam* (Tamil); V. V. Ghanekar, *Bhavvarh Rokhndiya Sati Grahak Sahkari Chalaval* (Marathi); N. R. Gujar, *Sahkari Sahkar Karkhane-Sahkari Prakrya Sanshtacha Manbindu* (Marathi).

Filmfare Awards (1968)

Best Actor: Shammi Kapoor (Brahmachari); **Best Actress:** Waheeda Rehman (Neel Kamal); **Best Picture:** Brahmachari; **Best Director:** Ramanand Sagar (Ankhen); **Best Supporting Actor:** Sanjeev Kumar (Shikar); **Best Supporting Actress:** Simi (Saathi); **Best Lyricist:** Shailendra (Posthumous)—(Brahmachari); **Best Playback Singer (Male):** Mohammed Rafi (Brahmachari); **Best Playback Singer (Female):** Asha Bhosle (Shikar); **Best Cinematographer (Colour):** G. Singh (Ankhen); **Best Cinematographer (Black & White):** Nariman A. Irani (Saraswatichandra); **Best Comedian:** Johnny Walker (Shikar); **Best Music:** Shanker-Jaikishan (Brahmachari); **Best Editing:** N. M. Shankar (Saathi); **Best Art Director (Colour):** A. A. Majid (Noor-Jehan); **Best Art Director (Black & White):** Ajit Banerjee (Majhli Didi); **Best Story Writer:** Sachin Bhaumick (Brahmachari); **Best Screenplay Writer:** Nabendu Ghosh (Majhli Didi); **Best Dialogue Writer:** Ali Raza (Saraswatichandra); **Best Sound Recordist:** P. Thakkersey (Shikar).

Documentary (1968): Best Documentary Film: Explorer.

Regional Films: Language, name of the film and producer respectively are: Bengali, *Apanjan*, R. N. Malhotra; Marathi, *Ekti*, G. Ghangule; Tamil, *Lakshmi Kalyanam*, A. L. Srinivasan; Telugu, *Sudigundalu*, A. Subba Rao and A. Nageswara Rao; Malayalam, *Thulabharam* (Produced by Supriya Pictures).

Best Foreign Film: *Privilege* produced by John Heyman.

Jnanpith Award (1969)

The Bharatiya Jnanpith Award, the highest literary honour, goes this year to the famous Hindi poet, Sumitranandan Pant.

The work which has earned for him the award is *Chidambara*, a collection of Hindi poems.

The award carries a prize of Rs. 1 lakh, tax-free, a citation and a bronze-cast of Vagdevi, the symbol of the award.

Kalinga Award

Prof. Fred Hoyle, distinguished British astronomer, was awarded the Kalinga Prize £ 1,000, on Feb. 8, 1969, for popularisation of science at a function organised by UNESCO at the India International Centre.

Nehru Award (1967)

The Jawaharlal Nehru Award for International understanding for 1967 has been made to Khan Abdul Ghaffar Khan.

The award to Khan Abdul Ghaffar Khan is the third in the series. The recipient of the first award was U Thant.

The second award was given posthumously to Dr. Martin Luther King.

National Safety Award

The Premier Automobiles factory in Bombay has been selected for the National Safety Award in 1968 in Scheme I (Highest Percentage Reduction in Frequency Rate). The award consists of a Cup and Cash prize of Rs. 2,500.

National Mineral Award

The recipients are : Dr. A. K. Dev of Aligarh Muslim University, Dr. A. K. Saha of Calcutta Presidency College, Dr. S. N. Sarkar of the Indian School of Mines, Dr. K. N. Sinha of the Central Mining Research Station, P. K. Ghosh of the Geological Survey of India, and T.B. Malhotra of Uranium Corporation Ltd. Dr. Dev got a cash award of Rs. 5,000 and others Rs. 3,000 each.

The National Mineral Awards are given to technologists and scientists for their contribution towards the exploration and exploitation of mineral resources.

AHMEDABAD DISTRICT—(continued from page 346)

GUJARAT VIDYAPITH
(National Univ. of Gujarat).
Ahmedabad 14.

Founded by Mahatma Gandhi in 1920. The Vidyapith works for spreading national education and particularly strives to make basic national education popular and was founded with the aim, among others, of providing university instruction in the mother tongue. It confers a degree of Bachelor of Social Science to its students who have undergone three years' course after matriculation. It

has provision for Post-graduate teaching for Master degree in Hindi, Gujarati, Rural Economics, Social Anthropology, Education. It also conducts two courses for training Hindi teachers equivalent to T.D. and B.Ed. and another course equivalent to B.Ed. for Basic Education Teachers for Secondary Schools. The Vidyapith is now declared by Government of India as an institution deemed to be University under Section 3 of the U.G.C. Act.

Chancellor : Morarji Desai; Vice-Chancellor : Thakorebhai Desai; Registrar : Ramlal Parikh.

CIVIL AVIATION

TOTAL outlay proposed for Civil Aviation for the Fourth Plan (1969-74) according to the Draft Outline : Rs. 202 crores.

Provision for Revenue or current expenditure in the Budget Estimates for 1969-70 : Rs. 8.64 crores (net). Provision for capital outlay on aviation during 1969-70 : Rs. 12.83 crores.

AIR-TRANSPORT

In addition to the two Corporations — Indian Airlines Corporation and Air India — there were 10 flying clubs and eight air transport companies holding permits for non-scheduled services on 31st December 1968.

During the year 1968*, approximately 13,500 hours and 3,908,000 kilometres were flown on non-scheduled operations against the previous year's figures of 16,925 hours and 4,850,000 kilometres. The number of passengers and amount of freight carried were approximately 115,800 and 11,039 tonnes respectively as against the previous year's figures of 110,687 and 18,083 tonnes of freight.

During 1968 (estimated), 132,040 hours and 58,428,000 kilometres were flown on scheduled air services against the previous year's figures of 131,144 hours and 56,087,000 kilometres. The number of passengers and amount of freight carried during 1968 (estimated) were 2,024,246 and 24,212 tonnes against the 1967 figures of 1,829,489 passengers and 23,693 tonnes of freight.

* Figures are estimated.

INDIAN AIRLINES CORPORATION

(Airlines House, 113, Gurdwara Rakabganj Road, New Delhi)

The present fleet consists of seven Caravelles VI-N, 14 Viscounts 700 Se., 15 Fokker Friendships, seven HS-748's, three DC-4's and 24 DC-3's. On order : Seven HS-748's.

Total number of employees as on 31-3-1968 : 12,819. The crew strength consists of 417 pilots. The airline's services extend over the entire sub-continent, including Afghanistan, Nepal, Burma and Ceylon.

The operations of the Corporation have been divided into four regions, namely, Delhi, Bombay, Madras and Calcutta.

Members of the Board : S. Mohan Kumaramangalam (Chairman); J. R. D. Tata, Air Chief Marshal P. C. Lal, Air Marshal M. S. Chaturvedi, K. N. Mookerjee, K. T. Satarawala, J. N. Goyal, Ravi J. Matthai, Y. T. Shah.

General Manager : K. T. Satarawala.

Assistant General Manager : B. Israni.

Financial Controller : V. Satyamurti.

Director of Engineering : R. S. Bahadur.

Director of Operations : Capt. R. P. Huilgol.

Director of Planning : A. H. Mehta.

Commercial Director : C. J. Lisely.

Controller of Stores & Purchases : J. A. D'Silva.

Industrial Relations Manager : M. K. Basu.

• **Public Relations Manager :** H. J. D'Penha.
Secretary : S. K. Chatterjee.
Controller, Central Space Control : J. Natarajan.
Bombay Region : *Regional Director :* Capt. D. A. Samant.

Calcutta Region : *Regional Director :* S. C. Mukherjee.

Delhi Region : *Regional Director :* Capt. R. G. Patwardhan.

Madras Region : *Regional Director :* H. N. Kelawala.

Indian Airlines is now a full member of the International Air Transport Association. It has set up training establishments for its Flying, Engineering and Traffic personnel. Besides regular passenger and freight services, I.A. operates a Night Airmail Service linking Bombay, Delhi, Calcutta and Madras.

During April 67-March 68, the Indian Airlines on its scheduled services, flew approximately 37,309 million kilometres, carrying 1,657,671 passengers, 21,289 tonnes of cargo and 9,931 tonnes of mail.

The capacity ton kilometres operated during the year 1967-68 under review is 203,085,613 as against 162,603,388 during the corresponding period of 1966-67.

The airline has introduced a Scholarship Scheme for promising children of low paid staff.

The direct contribution of Indian Airlines to the budget revenues of 1967-68 amounts to nearly Rs. 10.5 crores.

The airline's foreign exchange earnings was Rs. 6.89 crores in 1967-68 thus making it one of the big net earners of foreign exchange.

The balance of Rs. 3.5 crores comprises payment of excise and customs duty which amounts to Rs. 2.5 crores on fuel alone in this financial year and sales tax of Rs. one crore. The operating profit for 1968-69 according to revised estimates is Rs. 3.51 crores against Rs. 1.33 crores in the previous year and net profit is Rs. 1.59 crores against loss of Rs. 38.11 lakhs in 1967-68.

AIR-INDIA

Air-India now has a total of 33 online and 63 offline sales offices covering five continents.

Air-India at present operates seven services a week to New York via London. London is also served with seven additional terminator services, two via Moscow and five via Middle East. The airline also operates four services a week to Tokyo; three to Nairobi, one of which is extended to Entebbe; and three to Singapore, one of which is extended to Jakarta. Of the remaining two services to Singapore, one is operated to Sydney via Perth and the other to Nandi via Perth and Sydney. In addition a fortnightly service is operated to Mauritius.

Air-India, today has a fleet of five Boeing 707-437 intercontinental jets, three Boeing 707-337Bs and two Boeing 707-337Cs.

During 1967-68 Air-India flew 22.861 million revenue kilometres carrying 285,459 revenue passengers, 1,516 tonnes of mail and 10,494 tonnes of cargo. Comparable figures for 1966-67 were 18.792 million revenue kilometres, 254,736 revenue passengers, 1,411 tonnes of mail and 9,657 tonnes of cargo.

Members of the Board : (*Chairman :* J. R. D. Tata; *Members :* Air Marshal M. S. Chaturvedi, K. T. Satara-wala, S. Mohan Kumaramangalam, K. N. Mockherjee, Air Chief Marshal P. C. Lal, Y. T. Shah, N. Khosla, Ravi J. Matthai.

Executive Officers : *Chairman :* J. R. D. Tata.

Gen. Manager : Air Marshal M. S. Chaturvedi.

Commercial Director : S. K. Kooka.

Asst. Gen. Manager : K. K. Unni.

Director of Planning (Tech.) : Capt. K. Vishvanath.

Director of Engineering : K. G. Appuswamy.

Director of Operations : Capt. K. M. Mathen.

Financial Controller : C. V. R. Rao.

Controller of Stores & Purchases : S. C. Kale.

Chief Personnel Manager : S. K. Nanda.

AIR-INDIA OFFICES

Head Office : "Nirmal", 10th Floor, 241/242, Backbay Reclamation, Nariman Point, Bombay 1, BR. Tel. 291097.

Commercial Headquarters : Bank of India Building, Fourth Floor, Mahatma Gandhi Road, Bombay-1 BR. Tel. 256811.

Other Departments : Bombay Airport, Santa Cruz, Bombay-29 AS. Tel. 535461.

Information/Booking : New India Assurance Building, 87, Mahatma Gandhi Road, Fort, Bombay-1 BR. Tel. 259380.

Geneva Office : 1-3 Rue de Chantepoulet; **London Office :** 17/18 New Bond Street, WIY OBD; **New York Office :** 410 Park Avenue, New York 10022; **Nairobi Office :** Lugard House, Government Road; **Tokyo Office :** Hibiya Mitsui Building; **Sydney Office :** P. & O. Building, 3 Elizabeth Street; **Nandi Office :** Terminal Building, Nandi Airport.

Operating Results : 1967/68 (*Rupees in Crores*). Operating Revenue : 55.01; Operating Expenses : 49.58; Operating Profit : 5.43†; Net Surplus after Tax : 1.89.

Total No. of employees (year end) : 8,265; Unduplicated route Kilometres (year end) : 57,603.

AERODROMES

At the end of October 1968, 85 aerodromes were maintained by the Civil Aviation Department.

Aerodromes by Categories : *International Aerodromes* (4) : Bombay Airport (Santa Cruz); Calcutta Airport (Dum Dum); Delhi Airport (Palam); Madras Airport (Meenambakkam).

Major Aerodromes (7) : Agartala; Ahmedabad; Begumpet; Delhi (Safdarjung); Gauhati; Nagpur; Tiruchirappalli.

Intermediate Aerodromes (44) : Amritsar; Aurangabad; Balurghat; Baroda; Belgaum; Bhavnagar; Bhuntar (Kulu); Bhopal; Bhubaneswar; Bhuj; Bombay (Juhu); Coimbatore; Cooch-Bihar; Gaya; Indore; Jaipur; Junagadh (Keshod); Kailashahar; Kamalpur; Kandla; Khajuraho; Khowai; Kumbhirgram; Lucknow (Amausi); Madurai; Mangalore (Bajpe); Mohanbari; North Lakhimpur (Lilahari); Panna; Passighat; Patna; Pantnagar (Phoolbagh); Porbandar; Port Blair; Raipur; Rajkot; Ranchi; Rupei; Trivandrum; Tulihal (Imphal); Udaipur; Varanasi (Banaras); Vijayawada; Visakhapatnam.

Minor Aerodromes (30) : Akola; Behala; Bilaspur; Chakulia; Cuddappah; Donakonda; Hadapsar (Glider-drome, Poona); Jhansi; Jharsuguda; Jabalpur; Kanpur (Civil); Khandwa; Kolhapur; Kota; Lalitpur; Malda; Muzaffarpur (Rewaghat); Mysore; Nadirgul (Glider-drome, Hyderabad); Palanpur (Deesa); Panagarh; Rajahmundry; Ramnad; Raxaul; Satna; Shella; Sholapur; Tanjore; Vellore; Warangal.

WORKS

During the period from 1st January to 31st December, 1968, work was completed on the construction of international hangar and extension of 19L/OIR runway to 3,200 metres (10,500 feet) at Calcutta (Dum Dum) airport; construction of pucca runway at Kamalpur aerodrome; construction of a new terminal building at Agartala aerodrome and strengthening of the runway at Bhubaneswar

† Revised estimate for 1968-69. The net profit is Rs. 2.85 crores against Rs. 3.49 crores in 1967-68.

aerodrome. The other works completed during the period under review include improvements to the existing terminal building at Jammu aerodrome; strengthening of runway at Trivandrum aerodrome; completion of 1,097 metres (3,600 feet) of runway at Mangalore aerodrome and construction of passenger sheds at Khajuraho, Cooch-Bihar and Vijayawada aerodromes.

Work was in progress at the end of October, 1968 on the extension and strengthening of NW/SE runway at Bombay (Santa Cruz) airport; strengthening of the main runway at Baroda aerodrome; strengthening of runway at Varanasi aerodrome; construction of an all weather runway at Khajuraho aerodrome; strengthening and extension of runway at Mangalore aerodrome; construction of a fair weather strip at Hassan aerodrome and construction of apron and taxi-track for the new terminal building at Begumpet aerodrome.

Work was also in progress at the end of the period under review on the construction of a new international terminal building, technical block and control tower at Calcutta (Dum Dum) airport and on the additions and alterations to and provision of furniture in the terminal building at Delhi (Palam) airport.

Work on the extension of 10/28 runway at Delhi airport to 3,810 metres (12,500 feet) is being commenced. Work is also being started on the construction of a new terminal building at Begumpet aerodrome.

TRAINING CENTRE, ALLAHABAD

The Civil Aviation Training Centre, Allahabad comprises Aerodrome and Communication Schools. Ab-initio as well as refresher training is given in these schools to departmental officers and to the foreign nationals as are approved by the Government.

The Civil Aviation Fire Service Training Centre at Dum Dum gives training in the Basic Course in Crash Fire Rescue for regular fire crew. The Government Gliding Centre at Poona gives training for glider instructors.

FLYING CLUBS

At the end of October 1968, there were 23 subsidised flying clubs with their headquarters at Amritsar, Hyderabad, Gauhati, Banasthali, Patna, Bombay, Coimbatore, New Delhi, Bangalore, Baroda, Lucknow, Hissar, Jamshedpur, Karnal, Trivandrum, Indore, Nagpur, Madras, Jullundur Cantt., Bhubaneswar, Patiala, Jaipur and Behala, Calcutta.

Gliding Centres/Clubs: At the end of October 1968, there were three Government Gliding Centres at Bangalore, Lucknow and Poona and eight subsidised Gliding Clubs at Ahmedabad, Amritsar, New Delhi, Deolali, Jaipur, Kanpur, Pilani and Raipur.

AERONAUTICAL COMMUNICATION SERVICES

At the end of October 1968, there were 91 Aeronautical Communication Stations providing 172 Radio Navigation Aids and 620 Aeronautical Communication Channels.

List of Aeronautical Communication Stations maintained by the Civil Aviation Department as on 31st October, 1968: Agartala, Ahmedabad, Akola, Aligarh, Allahabad, Amritsar, Aurangabad, Balurghat, Bangalore, Banihal, Baroda, Belgaum, Bellary, Berachampa, Bhatinda, Berhampore, Bhavnagar, Bhopal, Bhubaneswar, Bhuj, Bombay, Calcutta, Chakulia, Cochin, Coimbatore, Cooch-Bihar, Dhanbad, Delhi (Safdarjung), Farukhabad, Gauhati, Gaya, Hissar, Khajuraho, Gwalior, Hyderabad (Begumpet), Imphal, Indore, Jabalpur, Jaipur, Jammu, Jamnagar, Jamshedpur, Jharsuguda, Jodhpur, Kailashahar, Kamal-

pur, Kandla, Kanpur, Katihar, Keshod, Khowai, Kota, Kud, Kuli (Bhuntar), Kumbhirgram, Lalitpur, Lilabari, Lucknow, Madras, Madurai, Magadi, Mandasor, Mangalore, Mohanbari, Muzaffarnagar, Muzaffarpur, Nagpur, Palam (Delhi), Panagarh, Passighat, Pataudi, Patna, Pant Nagar (Phoolbagh), Porbandar, Port Blair, Qazi Gund, Rajpur, Rajkot, Ranchi, Rupsi, Sikandrabad, Srinagar, Songadh, Tarakeswar, Tiruchirapalli, Trivandrum, Udairpur, Varanasi, Vijayawada, Vikarabad, Visakhapatnam.

AIRCRAFT

At the end of October 1968, 617 aircraft held current certificates of registration and 206 aircraft held current certificates of airworthiness. During the period from 1st January to 31st October 1968, 28 new aircraft were registered and the registration of 16 aircraft was cancelled. One hundred and ninety-seven aircraft including four aircraft of foreign nationality were inspected for issue or renewal of certificates of airworthiness. During the period under review, three new aircraft were imported for being used in crop spraying operations. The total number of aircraft engaged in aerial work at the end of October 1968 was 39.

RESEARCH AND DEVELOPMENT

Research and development for Civil Aviation are undertaken by the Research and Development Organisation of the Civil Aviation Department at the Technical Centre, Safdarjung, New Delhi.

The Research and Development Directorate in Civil Aviation has two distinct functions/activities. One is airworthiness engineering function for the Directorate General of Civil Aviation, including field work and operational safety. These include type certification, approval of modifications, laying down of Design and Operational Airworthiness requirement, service failure investigations, evaluation of performance and economics of civil transport aircraft, personal planes, agricultural aircraft and helicopters and other *ad-hoc* technical problems referred to from time to time. The second function relates to research, development and evaluation at the Technical Centre Laboratory. These include design and development of light aircraft and gliders, standardisation and development testing of aeronautical materials and processes, development of safety devices and operational research.

ACCIDENTS

During the period from 1st January to 31st December 1968, there were 29 major accidents in India involving 27 Indian registered aircraft and two foreign registered aircraft. Two of the Indian registered aircraft involved in accidents proved fatal resulting in the death of three persons including two members of the crew. Both the foreign registered aircraft involved in the accidents were fatal resulting in the death of 36 persons including 15 members of the crew.

Of the 27 Indian registered aircraft involved in accidents, two were operating scheduled passenger service, one was operating non-scheduled flight, 18 were engaged in training and cross-country flight, four in agricultural operations and two in Joy-rides. Both the foreign registered aircraft involved in accidents were engaged on scheduled passenger services.

At the end of December 1968, out of the 27 accidents to Indian registered aircraft 21 had been investigated and six were under investigation. Accidents to two foreign registered aircraft are under investigation by courts of inquiry appointed by the Government of India.

EDUCATION

UNDER the Constitution of India, Education is mostly managed by the State Governments. The Union Government is responsible for the maintenance of the four Central Universities and institutions of national importance, for promotion of research and co-ordination and determination of standards in higher education and research. Cultural activities in relation to foreign countries also fall within its purview. Education at the Centre has been constituted into a separate Ministry of Education.

Under Article 351 of the Constitution the Union Government is responsible for developing and promoting Hindi language along with Sanskrit and other Indian languages.

The Government of India is also responsible for education in Union Territories. In the case of Territories, which have their own legislatures, some of the powers are enjoyed by the respective Governments. The obligations of the Union Government are discharged by the Ministry of Education, through its various programmes, activities, pilot projects and research conducted on the one hand by the Ministry of Education and on the other hand through the agency of different bodies like the University Grants Commission, the Council of Scientific and Industrial Research and, National Council of Educational Research and Training, Central Hindi Directorate, Indian Council of Cultural Relations and other similar organisations financed and administered by the Union Government. There are also a number of advisory bodies like the Central Advisory Board of Education, All-India Council for Technical Education, National Council for Women's Education which assist the Ministry of Education in working out its programmes and policies.

Though Education is a state subject, the Central Government and the State Governments work together in the formulation, implementation and evaluation of the various programmes. The State Governments also receive grant-in-aid from the Centre for developing their educational programmes, according to a broad-based pattern.

The authority of the Government in controlling the system of public instruction is in part shared with, and in part delegated to Universities and State Boards of Secondary and Intermediate Education as regards secondary education and to local bodies as regards elementary education in some States. The control over higher education is exercised through the University Grants Commission.

EDUCATION COMMISSION

The Education Commission, appointed by the Government of India in 1964 to survey the entire field of educational development and to make a comprehensive review of the country's educational system submitted, its report in June, 1966. The report has provided the basis for widespread discussions at all levels regarding the reconstruction of the education structure in the country. The various recommendations of the Commission are under examination.

FOURTH FIVE-YEAR PLAN

The approach to Education during the Fourth Five-Year Plan is three-fold: (i) to remove the present deficiencies in the system and link it more effectively with the increasing demands of social and economic development; (ii) to remove internal stresses and strains in the educational system which have developed in consequence of rapid expansion in the first three Plans and (iii) to extend

the system in response to social urges and economic needs. A sum of Rs. 809 crores (Rs. 259 crores in the Central Sector and Rs. 550 crores in the State Sector) has been allocated for educational development in the Fourth Plan.

Statewise allocation in Rs. lakhs for Education in the Fourth Plan as mentioned in the Draft Fourth Plan: (The figures within brackets indicate allocation for general, technical and cultural education respectively); Andhra Pradesh (3,300; 300; 20); Assam (2,263; 301; 23); Bihar (3,061; 310; 1); Gujarat (2,550; 300; 50); Haryana (1,300; 155; 3); Jammu & Kashmir (769; 60; 20); Kerala (1,700; 225; 1); Madhya Pradesh (3,200; 400; 25); Maharashtra (5,500; 950; 22); Mysore (1,000; 200; 1); Nagaland (401; 45; 10); Orissa (1,425; 150; 25); Punjab (2,100; 85; 2); Rajasthan (1,400; 30; 15); Tamil Nadu (5,000; 503; 40); Uttar Pradesh (5,295; 1,048; 1); West Bengal (3,260; 370; 15); *Union Territories: A. and N. Islands* (100; —; 5); Chandigarh (50; 20; 1); Dadra and Nagar Haveli (23; ..; ..); Delhi (2,300; 251; 9); Goa, Daman and Diu (300; 84; 10); Himachal Pradesh (609; 50; 2); L. M. and A. Islands (36; ..; 1); Manipur, (303; 20; 1); N.E.F.A. (200; ..; 1); Pondicherry (210; 20; 2); Tripura (332; 95; 1); Total (47,987; 5,972; 298); Grand total 54,257.

The following table shows the enrolment at different stages of education during 1968-69 and target at the end of the Fourth Plan (1973-74) (Enrolment in lakhs):

Stage and age groups	1968-69	Fourth Plan (Target)
Primary (6-11)		
Classes I-V		
Enrolment	559.6	682.7
% of age group	77	84.9
Middle (11-14)		
Classes VI-VIII		
Enrolment	127.2	184.5
% of age-group	38.7	42.1
Secondary (14-17)		
Classes IX-XI		
Enrolment	65.5	103.7
% of age-group	16.6	25.9
University (17-23)		
(Arts, Science and Commerce)		
Enrolment	10.9@	16.0@
% of age-group	2.1@	2.4@

Illiteracy: As on March 31, 1969 the number of illiterates was 349 millions.

PRIMARY EDUCATION

Primary education (Classes I to VII or I to VIII as the case may be) is free in all States except Assam (boys only in Classes VI-VIII), Bihar (boys only in classes V-VIII), Uttar Pradesh (for boys only in Classes VII & VIII) and West Bengal (in some urban areas in Classes I to V and generally in Classes VI to VIII). All education is free in Jammu & Kashmir and Nagaland. The entire school education is free in Tamil Nadu, Andhra Pradesh and Mysore.

STATE INSTITUTES OF EDUCATION

With a view to improving the quality of education at various levels particularly at the primary and middle

schools levels, a centrally sponsored scheme known as "Establishment of State Institutes of Education" was started during the year 1963-64. Under this scheme, State institutes have been established in all the States, except Nagaland. These Institutes are intended to give training to school teachers, head-masters, inspecting officers and the staff of training institutions; to conduct research studies and investigations in the field of elementary education and to produce suitable literature for the benefit of teachers.

During 1966-67 a total sum of Rs. 16.20 lakhs was sanctioned by the Government of India for the implementation of this scheme. Considering its importance, the scheme has been continued in the Fourth Five-Year Plan as a Centrally sponsored Scheme.

SECONDARY EDUCATION

The Central Government has initiated certain quality improvement programmes such as establishment of State Bureau of Educational and Vocational Guidance, State Evaluation Units, State Institutes of Science, strengthening of selected Multipurpose Schools and improvement of Science Education in secondary schools, etc.

The accepted pattern of education comprises eight years of elementary (Basic) education; three years of secondary education with diversified courses to give it a vocational bias and make it a terminal point for entry into trade or profession; and three years of university education leading to the first degree. Some of the States have adopted a pattern of seven years of elementary (Basic) education followed by four years of secondary education.

Education Commission 1966, has recommended a pattern of ten years of general education, two years of higher secondary or one to three years of vocational education and a course of three years or more for higher education leading to first degree.

There were 26,650 High and Higher Secondary Schools in 1965-66. The number of multipurpose schools as in July 1966 was 4,107.

At the end of the Third Plan, 17.8 per cent of the children in the age-group 14-17 were studying in secondary classes. The Fourth Plan (1969-74) target is to raise the total enrolment in this age-group to 10.40 millions and the percentage of enrolment to 26.0. Estimated enrolment in 1968-69 was 6.59 million (4.97 million boys and 1.62 million girls).

Study of languages forms an important part of school education. The three-language formula now generally accepted is as follows:—

- (i) Regional language and mother tongue when the latter is different from the regional languages;
- (ii) Hindi or in Hindi-speaking areas another modern Indian language; and
- (iii) English or any other modern European language.

Educational and Vocational Guidance

The Central Bureau of Educational and Vocational Guidance is a wing of the Department of Psychological Foundations of the National Council of Educational Research and Training. The various activities of the Bureau include, promoting awareness of the nature of guidance services and the need of them, offering consultative and field guidance, undertaking research, preparation and dissemination of guidance tools and occupational information materials.

At the end of the Third Plan, State Bureaux of Educational and Vocational Guidance were functioning in all the States, except Tamil Nadu and Jammu and Kashmir.

The bureau in Jammu & Kashmir for which sanction had been accorded recently was likely to be established during the 1967-68. The central assistance released for the State bureaux during 1966-67 was Rs. 2.00 lakhs.

Central Schools

The Central Schools Scheme has been implemented by the Government of India in pursuance of the recommendation of the Second Pay Commission, to provide educational facilities to the children of transferable Central Government employees. Under this scheme, 112 higher secondary schools have been established with a common syllabus, and a common medium of instruction Hindi/English and to prepare students for a common examination, viz., the All-India Higher Secondary Examination of the Central Board of Secondary Education, New Delhi. These schools are being developed as quality schools, at a moderate cost to the parent. The children of the various categories of personnel liable to transfer are eligible for admission in the following order of priority: Central Government employees including Defence personnel; All-India Services employees of autonomous and semi-autonomous bodies fully financed by the Central Government; floating and local population.

During the school year 1966-67, about 45,000 children were studying in these schools. The entire expenditure on the running of the schools is borne by the Ministry of Education.

No tuition fee is charged in Classes I to VIII. Tuition fee at the rate of Rs. 6, Rs. 7, and Rs. 8 per month is charged in Classes IX, X and XI respectively. Scheduled Caste/Tribe students are exempted from payment of tuition fees.

Central Board of Secondary Education

The Central Board of Secondary Education has been constituted to bring about some uniformity in the pattern of secondary education and to meet the educational needs of the students whose parents have to move from one State to another from time to time.

The Board among others conducts the All India Higher Secondary, Higher Secondary (3 year course), Higher Secondary Multipurpose, and Higher Secondary (1 year course) examinations.

During 1968-69, 15 Sainik schools, located in various States were affiliated to the Board.

NATIONAL COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING

The main functions of the Council are to undertake, promote and coordinate educational research; undertake the development of variety of educational materials; organize pre-service and in-service training and extension work; disseminate information regarding the most recent educational techniques and practices; and publish model educational literature. The Council also organises educational surveys of national importance and maintains international contacts with regard to the new developments in the field of education.

Constituents of the NCERT

The Council has set up three academic bodies called the National Institute of Education, the Central Institute of Education, and the four Regional Colleges of Education which deal with different aspects of education research, development, training and extension work. The National Institute of Education, situated in Delhi, functions through the following constituent Departments/Units:— 1. Department of Science Education; 2. Central Science Workshop;

3. Department of Curriculum & Evaluation; 4. Department of Audio-Visual Education; 5. Department of Psychological Foundations; 6. Educational Survey Unit; 7. Department of Foundations of Education; 8. Department of Educational Administration; 9. Department of Teacher Education.

Many other important projects have been undertaken by the different Departments of the National Institute of Education. The Department of Adult Education has given special attention to the magnitude of illiteracy in India between 1961-81.

Summer Institute in Science

Since 1963, about 180 Summer Institutes of Science have been organised by the NCERT in collaboration with the U. G. C. and U.S. AID and thereby training was imparted to 700 science teachers.

Summer Institutes in Humanities and Social Sciences

During 1967-68, the N.C.E.R.T. organised the Summer Institutes in the following subjects:— 1. History; 2. Geography; 3. Economics; 4. Educational and Psychological Measurement; 5. Learning Motivation and Group Processes.

During the summer vacations of 1968, the Council organised 10 Institutes in the following subjects, viz.: Geography 4; Problems of Indian Education 1; Linguistics and Language Teaching 1; Research Methodology and Experimental Designs 1; Learning Motivation and Group Processes 1; Social Education 1 and Educational Psychology 1.

National Science Talent Search Scheme

Under this scheme, 350 students are selected every year at the close of the secondary school stage and are assisted financially to pursue courses in basic sciences upto the ph.D. level. Besides this, the scheme also provides for book grants, re-imbursement of the tuition fees of the beneficiaries.

Extension

Under this Programme extension workers have been given special training in developing instructional materials and improving the use of school Libraries. There are 97 secondary extension centres/units in the selected University departments and Secondary Training Colleges and 45 Primary Extension Centres in the Elementary Teachers Training Institutions and State Institutes of Education. Three field Units were established in the States of Andhra Pradesh, Rajasthan and Assam.

Examination Reform

Twenty-five orientation workshops of three days duration each in Hindi, English, Mathematics, Science and Social studies were organised for the middle school teachers of the Directorate of Education, Delhi to acquaint them with the proposed changes in the middle school examinations so that they may prepare their students accordingly.

The training of paper setters was extended to English, Hindi, Urdu, Telugu and composite mathematics.

Regional Colleges of Education

The Regional Colleges of Education represent a new experiment in teacher training. The colleges offer a wide-range of courses in which subject-matter and pedagogical training are integrated. The NCERT had added the Programme of Summer School-cum-Correspondence course for the B.Ed. degree in all the four Regional Colleges. The enrolment in the Summer-School-cum-Correspondence courses leading to the award of B.Ed. degree being run by the four Regional Colleges is 955

National Awards for Teachers

(See article "Awards and Prizes".)

WOMEN'S EDUCATION

The Central and State Governments give due weight to the advice of the National Council for Women's Education in framing programmes and policies in the matter of education for women. Similar bodies have been set up by the various State Governments.

With the object of overcoming the lag in the education of girls and women, some of the important measures taken by the Government of India are:—

(i) At the request of the Government of India, the State Governments have set up State Councils for Women's Education and, in several cases, have also appointed Deputy Joint Directors of Education specially charged with the formulation and execution of special programmes for girls' education.

(ii) Appointment of special committees from time to time to study problems of girls' education.

(iii) In addition to the schemes of general education which benefit boys as well as girls, special programmes including those relating to the construction of staff quarters for women teachers in rural areas, village allowance, appointment of school mothers, construction of sanitary blocks and hostels for girls, condensed educational courses and the establishment of polytechnics for girls, have been functioning.

(iv) Assistance to Voluntary Educational Organisations working in the field of Women's Education.

(v) Holding of seminars in different States to discuss problems and programmes of girls' education.

The enrolment figures at all stages for the year 1968-69 are 26.22 million girls: 20.88 million in classes I to IV, 3.72 million in classes VI to VIII and 1.62 million in classes IX to XI.

It is, however, expected that by the end of the Fourth Five Year Plan 71.5 per cent of girls at the primary stage, 26.3 per cent at the middle stage and 12.8 per cent at the secondary stage in the respective age-groups will be in schools.

RURAL HIGHER EDUCATION

The National Council for Rural Higher Education, established in 1956, advises Government on all matters relating to the development of rural higher education.

Under the scheme, 14 Rural Institutes are at present functioning in different parts of the country. These are: Gandhigram Rural Institute, Gandhigram, Madurai; Sri Ramakrishna Mission Vidyalaya Rural Institute, Coimbatore; Lok Bharati Rural Institute, Sanosara; Rural Institute, Amravati; Karmaveer Hire Rural Institute, Gargoti; Vidya Bhawan Rural Institute, Udaipur; Balwant Vidyapeeth Rural Institute, Bichpuri, Agra; Rural Institute, Jamia Millia, New Delhi; Rural Institute of Higher Studies, Birouli, Bihar; Kasturba Rural Institute, Rajpura; Rural Institute, Wardha; Rural Institute, Hanumanamatti, Mysore State; Kasturbagam Rural Institute, Indore and Rural Institute, Thavanoor (Kerala).

The courses, as approved by the Council and adopted by the Rural Institutes, are:

- (i) a three-year Diploma Course in Rural Services;
- (ii) a three-year Diploma Course in Civil and Rural Engineering;
- (iii) a two-year Certificate Course in Agricultural Science;
- (iv) a one-year Sanitary Inspectors' Course;
- (v) a one-year Advanced Course for Sanitary Inspectors;

(vi) a two-year Post-Diploma Course in Rural Sociology and Community Development; (vii) a two-year Post-Diploma Course in Rural Economics and Cooperation; (viii) a three-year Diploma Course in Rural Services (Education) and (ix) a one-year Preparatory Course to initiate matriculates into the three-year Diploma Course in Rural Services. The post-graduate Diplomas in (i) Rural Economics and Cooperation, and (ii) Rural Sociology and Community Development have so far been recognised by the Government of India and some State Governments as equivalent to the M.A. degree of an Indian University for purposes of employment under them.

The financial allocations for rural institutes of higher education for 1969-70 under plan and non-plan were Rs. 8.50 lakhs and Rs. 17.50 lakhs respectively.

BOOK DEVELOPMENT PROGRAMME

The Ministry is associated with the programmes of collaboration with the Governments of the U.S.A., the U.K. and the U.S.S.R. for the republication of standard education works originating in the respective countries. So far about 450 American books, 300 British books and 55 Russian books have been republished under programmes of the respective countries.

In order to safeguard the interests of Indian authors whose books could be regarded as standard ones, the Ministry is also operating a programme for republication of low-priced editions of selected standard educational works written by Indian authors. So far about 30 books have been selected for republication under this programme.

In order to stimulate the production of books of all types, the Government of India has also set up a National Book Development Board which would lay down the guidelines for the promotion of book development in the context of the overall requirements of the country. The Board is constituted with representatives of various sectors of the books industry as also of the various governmental and non-governmental agencies dealing with implementation of books programmes of various kinds.

SOCIAL EDUCATION

The programme of Social Education is put through literacy classes, community centres, and libraries which are an essential agency of mass education.

Radio listening and discussion groups, demonstrations, and excursions have been effectively used. Besides radio, visual aids and printed literature have served as means of imparting education to the masses.

The Department of Adult Education under NCERT, has been training Social Education personnel of different categories deputed by the State Governments etc.

To encourage production of suitable literature for neo-literates and the new reading public, the Ministry has organised a number of schemes, including the award of prizes to authors, and the bulk purchase of good books, and holding of Sahitya Shibirs (literacy workshops) in different parts of the country.

The Ministry has also undertaken a programme of publishing literature for social education workers and neo-literates. The Workers' Social Education Institute at Indore serves as a pilot project of social education for industrial workers.

The Central Government assists voluntary educational organisations for development of their activities in the field of social education.

HINDI, SANSKRIT AND MODERN INDIAN LANGUAGES

The Hindi Shiksha Samiti advises the Ministry of Education on matters relating to propagation and development of Hindi in the country.

Development Programmes of Hindi: The programme for the propagation of Hindi includes grant of financial assistance to voluntary Hindi Organisations, appointment of Hindi teachers in middle and higher secondary schools in non-Hindi speaking States, establishment of Hindi teacher training colleges in non-Hindi speaking States, free supply of Hindi books to schools and colleges, award of scholarships for post-matric studies in Hindi in non-Hindi speaking States and award of prizes to Hindi writers and poets belonging to non-Hindi speaking areas. The programme of enrichment and development of Hindi includes schemes of preparation, translation and publication of standard books of university level in Hindi through official and voluntary agencies as well as universities and learned societies, preparation and translation of books in Hindi with the assistance of private publishing concerns and preparation of official literature and evolution of scientific and technical terminology in Hindi.

Twelve prizes of Rs. 1,500 each were announced on books on fiction in Hindi written by persons belonging to non-Hindi speaking States.

Upto the end of December 1968, 10 volumes of the Hindi Encyclopaedia were brought out and the remaining two volumes were expected to be published by the end of July 1969.

Commission for Scientific and Technical Terminology

In pursuance of the Presidential order of the 27th of April, 1967, the Standing Commission for Scientific and Technical Terminology was set up for evolution of Scientific and Technical Terminology in Hindi and Regional languages. The functions of the Commission were laid down as follows:—

- (a) Review of the work done so far in the field of scientific and technical terminology in the light of principles laid down in paragraph 3 of the Presidential Order.
- (b) Formulation of principles relating to coordination and evolution of scientific and technical terminology in Hindi and other languages.
- (c) Coordination of the work done by different agencies of the States in the field of scientific and technical terminology, with the consent or at the instance of the State Governments concerned, and approval of glossaries for use in Hindi and other Indian languages as may be submitted to it by the concerned agencies.
- (d) The Commission may also take up preparation of standard scientific text-books using the new terminology evolved or approved by it, preparation of scientific and technical dictionaries and translation into Indian languages of scientific books in foreign languages.

Sanskrit

The Central Sanskrit Board has played an important role in the formulation and implementation of a number of schemes for promotion of Sanskrit. The most notable recommendation of the Board during 1966-67 related to the setting up of Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeetha in Delhi and running it on the lines of the Kendriya Sanskrit Vidyapeetha, Tirupati. The Vidyapeetha has started functioning from 1-4-1967.

Development of Sanskrit (1967-68)

The traditional type of Sanskrit education was encouraged by giving suitable grants to voluntary Sanskrit organisations, Gurukulas. About 100 scholars trained on traditional lines continued their research and were awarded scholarships worth Rs. 200 per month. About 500 eminent Sanskrit Pandits enjoyed suitable assistance under the Scheme of Financial Assistance to eminent Sanskrit Pandits in indigent circumstances.

2. Many valuable publications relating to Sanskrit were brought out with grants from the Government of India. Notable among them are :—

- (i) A critical edition of the Vamana Purana with two separate volumes with Hindi and English translations by the All-India Kashiraj Trust, Varanasi.
- (ii) A critical edition of the Mahabharata by Bhandarkar Oriental Research Institute, Poona.
- (iii) A critical edition of the Mahabharata (Cheaper edition) with Hindi translation (Adi and Sabha Parvans) by Swadhyaya Mandal, Pardi.
- (iv) Bharatiyam Vittam (Sanskrit) translation of Macdonell's India's (Past) Kendriya Sanskrit.
- (v) S.a.d. vims'a brahmanam.

Modern Indian Languages

Under the scheme for the development of Modern Indian Languages, grants up to 50 per cent of the expenditure on approved items are sanctioned for bringing out publications like encyclopaedias, bilingual dictionaries, books of knowledge, publications bringing out similarities among different Indian languages, catalogues of manuscripts, books of cultural, literary, indological or linguistic interest, etc. Grants on the same basis are also given for holding literary conferences, seminars and exhibitions and for conducting other important activities considered conducive to the development of Indian languages. Assistance has also been rendered by way of purchasing copies of printed publications.

Under another scheme, assistance is given to State Governments to enable them to take up programmes for the development of the regional languages.

Bharatiya Bhasha Samiti: This advisory body consisting of 51 members advises the Government on all matters relating to the propagation and development of Indian languages.

SCHOLARSHIPS

The Government of India have been operating a number of scholarship schemes for study in India. A brief report on the important schemes is as below :

National Loan Scholarships: Financial assistance is given to the poor but meritorious students to complete their education. The loan is recoverable in monthly instalments commencing one year after the loanee secures employment or three years after the grant of scholarship whichever is earlier.

66,900 awards were made during the Third Plan. During 1968-69, 14,825 awards were distributed among all the States and Union Territories. In each year of the Fourth Plan, it is proposed to give 26,500 awards. The estimated expenditure during the first year of the Plan is Rs. 1,48,00,000 (Plan) and Rs. 3,76,70,000 (non-Plan).

National Scholarships Scheme: Under this scheme 2,650 awards were made every year during the Third Plan.

In 1968-69, the Merit-cum-Means Scholarships Scheme for technical studies was merged with it and the number

of awards under the amalgamated scheme raised to 8,250. Scholarships under this scheme are awarded to students with a parental income up to Rs. 500 p.m. The estimated expenditure during the first year of the Fourth Plan is Rs. 70,50,000 (Plan) and Rs. 1,69,15,000 (non-plan): A total amount of Rs. 9,18,00,000 has been earmarked for the entire Plan period.

Scholarships for study in Residential Schools: Two hundred candidates were selected by the Union Ministry of Education under its scheme of Merit Scholarships for study in Residential Schools for the academic session started in 1969. They included three Scheduled Castes and five Scheduled Tribes candidates.

Scholarship for School Teachers' Children: The number of scholarships awarded every year during the Third Plan was 500. It is proposed to give 750 awards in each year during the Fourth Plan. The estimated expenditure in the First year of the Fourth Plan is Rs. 4,50,000 (Plan) and Rs. 16,77,000 (non-Plan).

Scholarships for Study Abroad: In order to accelerate the pace of development of education, science and technology and to meet the shortage of trained personnel in different fields, the Government of India has also been accepting offers of scholarships and fellowships for study/research/training of Indian nationals abroad made by foreign governments and organisations. As a measure of reciprocity and to promote cultural relations with other countries, the Government of India has also been offering scholarships and fellowships to the nationals of other countries for study in India.

During the year under report, a number of scholarship schemes were in operation which can be classified into the following sections :

- I. Scholarships for Indian Nationals for Study in India.
- II. Scholarships for Indian Nationals for Study abroad.
- III. Scholarships for students belonging to Scheduled Castes and Tribes etc.
- IV. Programme of Exchange of Scholars.
- V. Scholarships for Foreign Nationals for Study in India.

Students in U.S.A.: There were 9,594 Indian students, trainees, physicians, surgeons, visiting scholars and faculty members in the United States as on January 1, 1969 according to a survey of the Education Department of the Indian Embassy in Washington.

Foreign Students

As on June 7, 1967, 4,662 foreign students, coming from over 50 countries, were studying in our country.

A large number of these students were receiving scholarships covering tuition fees, cost of books, study tour expenses, maintenance allowance, cost of travel, etc. Some seats were also reserved in the universities for them and as far as possible, accommodation was reserved in university and college hostels.

NATIONAL FITNESS CORPS

The National Fitness Corps is a comprehensive youth programme adopted on a national scale combining activities designed to develop the total personality of Indian youth.

The broad aspects of the integrated scheme are :—

(1) **Objects :** (a) to make youth physically strong and resilient by developing in them physical efficiency, toughness, endurance, courage, discipline and patriotic fervour;

(b) to develop among students a sense of appreciation for the democratic values of life and love for their country, its past history and future destiny.

(2) *Programme consists of:* (i) Exercise Tables; (ii) Drill and Marching; (iii) Lezium; (iv) Track and Field Events; (v) Games and Relays; (vi) Gymnastics for boys/Folk Dances for girls; (vii) Simple Combats, Wrestling, Judo; (viii) Hiking and Cross-country; (ix) Instruction and Practice in Tests; (x) Field Craft (for boys)/Home Nursing (for girls); (xi) Information on Indian Constitution and Democratic set-up, Practical Projects and Community singing; (xii) Civil Defence; (xiii) Swimming etc.

School Curriculum

The programme of National Fitness Corps is a compulsory subject for all children of the age group 9-16 *plus* in Middle, High and Higher Secondary Schools. There is a compulsory or core group of activities which every child must do as part of the N.F.C. activities, while there are also a few optional items meant for children having a special flair for them.

Teacher Training

1,218 more State Physical Education Teachers and 309 N.D.S. Instructors have been reoriented in six weeks courses at these training centres bringing the total trained P.E.Ts. to 14,534 and N.D.S. Instructors to 5,112. The Central Government have now decided to disband the central control of N.D.S. Instructors and to decentralise the whole programme of the National Fitness Corps. As a result of this decision the Training Centres in different places are in the process of closure.

As such no further courses are to be held by National Fitness Corps Directorate.

Central Training Institute

The Central Training Institute is one of the most modern craft-instructor training institutes in the country. Latest techniques in teaching are employed at the Institute, including audio-visual aids such as films, film-strips, tape recordings, charts and models of all kinds.

The institute provides a training capacity for 392 craft instructors. The main objectives of the institute are to provide instruction in various trades and in the art of

teaching these trades; to train the instructors required for the craft-training institutions; and to provide refresher courses to enable trade-instructors to keep abreast of the latest industrial techniques and advances in teaching their respective trades.

Training is offered in 15 trades and the duration of the course in each trade has been raised to 12 months w.e.f. 1st August 1966. The Institute operates throughout the year.

The U.S.A.I.D. have provided the services of a team of seven Technical Advisers, equipment and technical books worth \$356,000 and training facilities to sixteen technical officers of the institute in U.S.A. for a period of six months each.

Foreign Trained Scientific and Technical Personnel

Among the Scientific & Technical Personnel who have been abroad after January 1, 1957 for higher studies, training or employment 13,087 were registered by Jan. 1, 1968, in the Indians Abroad Section of the National Register maintained by the Directorate of Scientific & Technical Personnel. Of these 6,787 had already reported their return.

The position in each field is briefly indicated below.

Registration and return of Indians Abroad as on Jan. 1, 1968.

Subjects	Total Registered	Returned
Scientists	4,048	2,112
Social Scientists	154	83
Engineers	5,513	2,679
Technologists	988	520
Medical Personnel	2,384	1,393
Total	13,087	6,787

The broad distribution of the registrants who were abroad on Jan. 1, 1968 is shown below.

In addition, 574 persons in the field of Business Administration and Accountancy had been registered by Jan. 1, 1968 who had been abroad for studies, training or employment.

Country	Science	Social Sciences	Engineering	Technologists	Medicine	Total
U.S.A.	1,034	36	915	144	214	2,343
Canada	220	4	111	11	47	393
U.K.	295	20	1,055	141	660	2,171
Germany	111	2	482	105	19	719
Other European Countries	115	6	121	29	21	292
Australia & New Zealand..	36	1	20	14	9	80
African countries	125	2	130	24	21	302
.. ..						
.. ..						
Total	1,936	71	2,834	468	991	6,300

MEDIUM OF INSTRUCTION IN UNIVERSITIES

The vice-chancellors' conference at New Delhi in Sept. 1967 accepted in the plenary session a statement agreeing to a change in the medium of education at the under-graduate level to Indian languages within a period of about five to ten years, depending on the degree of preparatory work already done, the nature of the subject and other relevant factors. It was, at the same time stressed

that in the programme of change-over, the importance of English should be fully recognised and adequate arrangements made for its study at the under-graduate level.

At the post-graduate and research level the question of medium of education lost its usual meaning as the students would have to depend on books and journals in English and other important world languages in science, medicine and technology.

In the case of All-India institutions, the present arrangements regarding the medium of instruction might continue as recommended by the Education Commission. In the case of large cities with a multi-lingual population, medium of education might continue to be English in addition to the regional languages which the university would provide.

A large number of the universities have already switched over to regional languages either wholly or in conjunction with English. A quick survey of the university scene shows that while the science students particularly at the post-graduate level, prefer English as the medium of instruction and examination, there is an ever-increasing number who have already changed over to the regional language. In most universities, the number of English-medium pupils is sharply falling.

Over 40 universities in the country including Delhi, Calcutta, Madras, Mysore, Lucknow, Gujarat, Banaras, Allahabad, Punjab, Patna, Osmania, Vikram, Sagar and Visva Bharati offer a regional language, as the medium of instruction (in addition to English) at the degree level in the faculties of arts and commerce. In most of these a regional language can be offered as the medium even for the sciences but students generally opt for English. The only exception to this will be Shivaji University which, in the near future, will insist on English as the sole medium for science education.

The picture changes altogether at the post-graduate level. Of the 40 universities only 18 or so have provision for teaching or examining through a regional language. English thus continues to be the only medium at this level in the other universities. The wholly regional universities like the Ravi Shankar, Gujarat Vidyapeeth and Kashi Vidyapeeth teach and examine in Hindi, Gujarati and Marathi only. So far as science subjects are concerned, English would appear to be the only medium at this level.

According to a statement made by the Central Education Minister in the Parliament in August 1969, out of 86 universities in the country 52 had already introduced either Hindi or other Indian languages as the medium of instruction in addition to English.

Literature in Indian Languages

The Government of India have initiated a scheme with a proposed outlay of Rs. 15 crores in the Fourth Plan for assisting the production of university-level books in regional languages.

The Government has agreed to grant Rs. one crore to each State Government, excluding the administrations of Union Territories and Nagaland, spread over a period of six years from 1968-69 for the production of books in the regional languages to facilitate the switch-over to regional languages.

Fifteen States have already set up book production boards. The Education Ministry has so far released Rs. 34,47,828 to Rajasthan, Bihar, Madhya Pradesh, Andhra Pradesh, Haryana, Uttar Pradesh, Tamil Nadu, Mysore, Kerala, West Bengal, Assam and Maharashtra.

The States have been advised that they could straightaway incur further expenditure of Rs. 4 lakhs each during 1969-70 and more funds would be given if needed.

In addition, the Ministry has also a plan under which 100 fellowships would be offered each year for the five years of the Fourth Plan to first class post-graduate students, who would take up the translation or writing of original books in regional languages.

Each translator has to have triple competence, competence in the foreign language, in the subject, and in the regional language.

Already more than 800 books in different subjects are available in Hindi at the university level.

UNIVERSITY GRANTS COMMISSION

(Bahadur Shah Zafar Marg, New Delhi-1)

Basic facts and figures (1967-68)

The total number of universities during 1967-68 was 74 and the number of institutions deemed to be universities was ten. The total number of colleges was about 2,899 as against 2,749 in 1966-67. The total enrolment in the universities and colleges (including Intermediate classes under the Board of High School and Intermediate Education, U.P.) was 22,18,972 as against 19,49,012 during 1966-67.

The number of teachers in Universities and Colleges was 1,02,454.

Grants paid during 1967-68

Grants are provided to universities and institutions deemed to be universities for the implementation of development programmes sanctioned by the Commission. The development needs of agricultural universities are looked after by the I.C.A.R. since funds for agricultural education are not placed at the disposal of the Commission. The Commission's grants are meant for additional staff, library and laboratory facilities, accommodation for teaching and research, books, furniture, equipment etc. The development programmes of the universities are examined and discussed by the Visiting Committees with the universities/institutions concerned, during each Plan period. The Commission has provided Rs. 1,69.24 lakhs as development grants for 1967-68.

In 1967-68 the development grants released to the universities for science subjects and for humanities and social sciences were Rs. 257.35 lakhs and Rs. 115.00 lakhs respectively. In addition to this some unassigned grants were also placed at the disposal of the universities for miscellaneous schemes such as construction of hostels, library buildings and staff quarters, provision of students' amenities etc. The grant under miscellaneous schemes during the year was Rs. 359.47 lakhs.

Centres of Advanced Study

The Commission has been providing special assistance to 30 selected university departments to function as Centres of Advanced Study. These centres are intended to encourage the pursuit of excellence and to improve quality and raise standards at the post-graduate and research levels. During the Third Plan period, grants amounting to Rs. 1.06 crores were utilised by these centres. The grants paid to these centres by the Commission during 1967-68 amounted to Rs. 73.18 lakhs which included payments for the normal development programmes of the present departments.

Engineering and Technology

The Commission has been providing grants for the development and expansion of higher education in engineering and technology to university departments and institutions maintained by the universities. The grants paid during 1967-68 amounted to Rs. 203.65 lakhs.

Summer Schools and Institutions

In 1967-68, 60 summer institutes (15 in mathematics, 16 in physics, 16 in chemistry and 13 in biology) were organised for school teachers in collaboration with the National Council of Educational Research and Training and the United States Agency for International Development.

2,416 teachers participated in these institutes. 49 summer institutes (13 in mathematics, 14 in chemistry and 11 each in physics and biology) were organised for college teachers and 1,867 teachers participated in these institutes. The grants paid to universities for these summer institutes amounted to Rs. 44.85 lakhs. Nine institutes in English language were also organised in collaboration with the British Council. These were attended by 470 teachers. Two institutes were organised for talented under-graduate students.

Apart from summer institutes, the Commission has been providing assistance to the universities for refresher courses, seminars, symposia and academic conferences.

Central Universities

The Commission paid maintenance grants amounting to Rs. 534.12 lakhs to the four central universities in 1967-68. The maintenance grants paid to the non-government colleges of Delhi University amounted to Rs. 180 lakhs and Rs. 15.14 lakhs for specific purposes.

New Universities

The Commission has agreed for the establishment of the following universities, viz. Kumaon University at Nainital (U.P.), Sambalpur and Berhampur Universities in Orissa, a Federal/Unitary type University at Ernakulam and a teaching-cum-affiliating University at Calicut. The Sambalpur, Berhampur and Calicut Universities have since been formed.

Award for Retired Teachers

The universities and colleges are helped to utilise the services of the selected retired teachers. Under the scheme an honorarium of Rs. 6,000 per annum is provided to a retired teacher to whom the award is offered. In 1967-68, 59 teachers were offered awards under the scheme. The grant paid during 1967-68 amounted to Rs. 11.24 lakhs.

Financial assistance is also provided to selected teachers for the purchase of equipment and literature to carry on research or learned work. In 1967-68 Rs. 5.25 lakhs were approved for 196 projects in humanities and local sciences and 303 projects in science subjects, engineering and technology as grants under the scheme.

The Commission also gives assistance to universities and colleges for the construction of staff quarters and teacher's hostels. During 1967-68 payments to universities on this account amounted to Rs. 28.20 lakhs for staff quarters, Rs. 17.59 lakhs for teachers' hostels and Rs. 57.89 lakhs for students' hostels.

Scholarships and Fellowships

Senior and junior research fellowships are provided by the Commission to enable deserving scholars to pursue advanced study and research. The senior fellowships are of the value of Rs. 500 per month and junior fellowships of the value of Rs. 300 per month in the humanities and science subjects. In engineering and technology the value of the fellowship is Rs. 400 per month. All these fellowships carry a grant of Rs. 1,000 per annum for expenditure on contingencies. In 1967-68, 60 senior and 214 junior fellowships were awarded in humanities and science subjects and 26 in engineering and technology. The total number of research students working under the fellowships awarded by the Commission is 356 in humanities and science subjects and 50 in engineering and technology. The Commission allocated 321 research scholarships, each of the value of Rs. 250 per month, to the universities. 16 scholarships of the value of Rs. 1,200 per annum for honours and post-graduate studies in Arabic and Persian were awarded in 1967-68.

General Schemes

The Commission also provides assistance to universities* and colleges for programmes of general education, publication of research works including doctoral theses, establishment and improvement of printing presses, construction of guest houses etc.

Universities (Feb. 1969)

The Universities with the names of Vice-Chancellors are given below :—

Agra University.—Shital Prasad; *Aligarh University.*—Prof. Abdul Aleem; *Allahabad University.*—Prof. A. B. Lal; *Andhra University.*—L. Bullayya; *Andhra Pradesh Agricultural University* (Hyderabad).—O. Pulla Reddy; *Annamalai University* (Annamalainagar).—Dr. S. P. Adinarayan; *Awadesh Pratap Singh University*, (Rewa, M.P.)*—R. C. Roy; *Banaras Hindu University.*—Vacant; *Bangalore University.*—Dr. V. K. Gokak; *Berhampur University.*—R. P. Padhi; *Bhagalpur University.*—Dr. Bisheswar Prasad; *Bihar University* (Muzaffarpur).—Dr. P. S. Muhar; *Bombay University.*—Dr. P. B. Gajendra-gadkar; *Burdwan University.*—Dr. D. M. Sen; *Calcutta University.*—Prof. S. N. Sen; *Calicut University* (Calicut).—K. C. Chakko, (Pro-Vice-Chancellor); *Delhi University.*—Vacant; *Dibrugarh University.*—Dr. B. R. Seth; *Gauhati University.*—Dr. M. N. Goswami; *Gorakhpur University.*—Rev. P. T. Chandi; *Gujarat University* (Ahmedabad).—Prof. Umashankar Jethalal Joshi; *Gujarat Ayurveda University*, (Jamnagar).—M. P. Vyas; *Indira Kala Sangeet Vishwavidyalaya* (Khairagarh).—U. Misra Acharya (Rector); *Indore University.*—K. L. Joshi; *Jabalpur University* (Jabalpur).—Dr. R. B. Pandey; *Jadavpur University* (Calcutta 32).—Vacant; *Jammu & Kashmir University* (Srinagar).—Dr. J. N. Bhan; *Jawaharlal Nehru Krishi Vishwavidyalaya* (Jabalpur).—Dr. L. S. Negi; *Jiwaji University* (Gwalior).—S. S. Bhandarkar; *Jodhpur University.*—Dr. M. L. Roonwal; *Kalyani University.*—S. K. Mukherjee; *Kameshwar Singh Darbhanga Sanskrit Vishwavidyalaya* (Darbhanga).—Kumar Gangannand Sinha; *Kanpur University*, (Kanpur).—Acharya Jugal Kishore; *Karnatak University* (Dharwar).—Dr. A. S. Adke; *Kerala University* (Trivandrum).—Dr. A. Aiyappan; *Kurukshetra University.*—Deep Chand Varma; *Lucknow University.*—Prof. M. B. Lal; *Madras University.*—N. D. Sundaravadivelu; *Madurai University.*—T. P. Mecnakshi Sundaram; *Magadh University.*—B. M. K. Sinha; *Maharaja Sayajirao Univ. of Baroda.*—Dr. C. S. Patel; *Marathwada University* (Aurangabad).—Dr. N. R. Tawde; *Meerut University.*—Dr. R. K. Singh; *Mysore University.*—Dr. K. L. Shrimali†; *Nagpur University.*—Dr. V. B. Kolte; *North Bengal University* (Darjeeling).—Prof. A. C. Roy; *Orissa University of Agriculture and Technology* (Bhubaneswar).—Dr. B. Samant Rai; *Osmania University* (Hyderabad).—Dr. D. S. Reddi; *Punjab University* (Chandigarh).—Suraj Bhan; *Punjab Agricultural University* (Ludhiana).—P. N. Thapar; *Patna University.*—Dr. K. K. Datta; *Poona University.*—Dr. H. V. Pataskar; *Punjab University* (Patiala).—Kirpal Singh Narang; *Rabindra Bharati* (Calcutta).—Dr. (Smt.) Roma Choudhury; *Rajasthan University* (Jaipur).—Dr. R. C. Mehrotra; *Ranchi University.*—A. F. Markham; *Ravishanker University*, (Raipur).—Dr. B. L. Pandey; *Roorkee University.*—M. R. Chopra; *Sambalpur University.*—Vacant; *Sardar Patel University.*—(Vallabh Vidyanagar).—I. J. Patel; *Saugar University.*—Prof. M. P. Sharma; *Saurashtra University* (Rajkot).—D. R. Mankad; *Shivaji University* (Kolhapur).—Dr. A. G. Pawar; *S. N. D. T. Women's University* (Bombay).—Dr. (Smt.) Premila V. Thackersey; *South Gujarat University*, (Surat).—Prof. C. N. Vakil; *Sri Venkateswara University* (Tirupati, Andhra);

* Dr. K. L. Shrimali. † Is now Vice-Chancellor, Banaras Hindu University.

—Dr. V. G. Vaman Rao ; *U. P. Agricultural University* (Pant Nagar).—Dr. P. Singh ; *Udaipur University* (Udaipur).—Dr. G. S. Mahajani ; *University of Agricultural Sciences* (Malleswaram).—Dr. K. C. Naik ; *Utkal University* (Bhubaneswar).—Dr. S. Misra ; *Varanaseya Sanskrit Vishwavidyalaya* (Varanasi).—Dr. Gauri Nath Shastri ; *Vikram University* (Ujjain).—Dr. Shiv Mangal Singh "Suman" ; *Visva Bharati* (Santiniketan).—Dr. K. Bhattacharya.

Names of Institutions deemed to be Universities

Birla Institute of Technology and Science (Pilani).—Director : Col. V. Lakshmi Narayan ; *Gujarat Vidyapith* (Ahmedabad) : Thakorbbhai Desai ; *Gurukul Kangri Vishwavidyalaya* (Hardwar) : Vice-Chancellor : Acharya Priya Vrata ; *Indian Agricultural Research Institute* (New Delhi) : Director : Dr. M. S. Swaminathan ; *Indian Institute of Science* (Bangalore) : Director : Dr. S. Dhawan ; *Indian School of International Studies* (New Delhi) : Director : Dr. M. S. Rajan ; *Indian School of Mines* (Dhanbad).—Director : Prof. D. N. Prasad ; *Jamia Milia Islamia* (New Delhi) : Vice-Chancellor : Prof. M. Mujeeb ; *Kashi Vidyapith* (Varanasi) : Vice-Chancellor : Prof. Raja Ram Shastri ; *Tata Institute of Social Sciences* (Bombay) : Director : Dr. M. S. Gore.

TECHNICAL EDUCATION

The All-India Council for Technical Education gives advice on all matters relating to the co-ordination and development of technical education in the country.

Five Higher Technological Institutions of national importance at Kharagpur, Bombay, Madras, New Delhi and Kanpur have been set up. The admission to these institutes at the under-graduate level are made on the basis of a common entrance examination conducted at several centres in the country and one centre at London. Besides these, fourteen large-sized regional engineering colleges, a number of other engineering colleges, technological institutions and polytechnics have been set up. For specialised courses such as Mining, Engineering and Metallurgy, a number of centres have been established both for degree and diploma courses. For Printing Technology, four regional schools one each at Madras, Calcutta, Allahabad and Bombay have been established. Telecommunication Engineering, Chemical Engineering, Architecture, Textile Technology, Petroleum Technology, Production Technology, Geophysics are some of the subjects in which institutions are today offering courses. Besides the establishment of new institutions and new courses, the old institutions have also been expanded and developed. By 1965-66 the number of instructions for degree and diploma courses has risen to 133 and 274 with an admission capacity of 24,695 and 48,048 respectively. Today about 2,200 places have been made available for advanced training for post-graduate courses and research. 104 Junior Technical Schools had been established by the academic year 1965-66 ; designed especially for those who wish to enter industry and other technical occupations.

All India Council

The Council represents all the interests which are concerned with the technical education. It consists of representatives of all State Governments, Ministries of the Central Government, Parliament, Industry, Commerce, Labour, Professional and learned societies, Universities, Technical Institutions and various other concerned interests. Its functioning, *inter alia*, includes the preparation of plans for the development of technical manpower of different types and suggesting measures to meet

them, suggesting improvement in the pattern of technical education from time to time to suit changing conditions, establishing liaison between industry, Government departments and other organisations on the one hand and technical institutions on the other, coordinating the activities of States, recommending grants and other forms of assistance that might be given by the Centre to the State Government institutions, University institutions and other organisations for development of technical education. For the proper discharge of its functions, the Council has set up a Coordinating Committee, four Regional Committees and seven Boards of Technical Studies.

Courses

Technical Education in India is a four-tiered structure comprising post-graduate courses and research ; first degree courses ; diploma courses ; and Vocational or Industrial training.

A scheme has also been formulated for a two-year diploma course for training technicians, with higher secondary as the admission qualification. The scheme aims at giving specialised training in particular fields of engineering directly related to the functions of a diploma holder in Industry.

A scheme for part-time diploma courses in engineering for persons working in the Industry has also been introduced.

Indian Institute of Science, Bangalore : (See under Mysore State Associations for details).

School of Planning and Architecture, Delhi : The School offers graduate courses in Architecture for the Bachelor's degree course of the university of Delhi and the National Diploma course of the All India Council for Technical Education. Besides, post-graduate courses in Town and Country Planning — both part-time and full-time and in Housing (full-time) are run by the School.

All India Institute of Management, Calcutta and Ahmedabad : The institutes were established by the Central Government in 1962-63 in collaboration with the State Governments, local industrialists and Ford Foundation. They conduct post-graduate courses and research in management and related fields. The institutes also do consultancy work in response to requests from Government departments and private enterprises.

Administrative Staff College, Hyderabad : This institute offers a 12-week course to young administrators from all walks of national life in the principles and techniques of organisation, administration and leadership in civil life.

National Institute for Training in Industrial Engineering, Bombay : Established in 1964 with the U.N. Special Assistance Fund, the institute is intended to train suitably qualified persons in industrial engineering methods and techniques.

National Institute of Foundry & Forge Technology, Ranchi : With a view to providing training facilities in foundry engineering and forging, the Central Government had approved the establishment of the institute in 1966-67. It will also conduct short-term refresher courses in the latest methods and techniques of production, design and development for persons working in the industry.

Scheme-wise financial allocations for technical education during 1968-69 (Revised) and 1969-70 (Estimates) respectively : (Rupees lakhs) : Post-graduate courses and Research 43.43 ; 50.00 ; Post-graduate Courses and Research at Regional Engineering Colleges 25.00 ; 30.00 ; Part-time Courses 17.73 ; 8.50 ; Fellowships for Training of Teachers and Technical Institutions 17.74 ; 14.19 ;

Practical Training Stipends scheme (Plan) 109·00 ; 110·00; (Non-plan) 22·00; 40·00; Research Training scholarships/ Research Fellowships Scheme (Non-plan) 5·00 ; 5·20; Summer Institutes 18·00 ; 23·00; Recurring Grants-in-Aid to others for Specialised Courses (Non-plan) 4·58; 4·58; Revision of Salary Scales of Teachers (Plan) 26·00; 15·00; Establishment of Four Regional Institutes for Training of Teachers of Polytechnics 58·70; 49·90; Regional Engineering Colleges 300·00; 313·00; Indian Institute of Technology (Plan) 521·92; 347·00; (Non-Plan) 355·29; 527·24; School of Planning & Architecture, New Delhi (Plan) 5·04; 2·64; (Non-Plan) 10·96; 14·20; National Institute of Foundry and Forge, Ranchi 7·78; 20·00; Management Institutions (Plan) 38·77; 27·19; (Non-Plan) 23·29; 28·11; Indian School of Mines, Dhanbad (Plan) 5·13; 8·46; (Non-Plan) 21·18; 21·10; Indian Institute of Science, Bangalore (Non-Plan) 112·00; 112·00; Directorate of Practical Training in Mines, Dhanbad (Non-Plan) 1·83; 1·93; National Institute for Training in Industrial Engineering, Bombay — ; 5·51; Central Grants to Private Institutions 11·00; 102·50; Grants to other Parties under Old AICTE Scheme 16·10; 16·10.

Fourth Plan Programme

Technical institutions have been planned for an annual admission capacity of 25,000 students at the degree level and 48,600 students at the diploma level. The actual

admissions in 1968-69 were about 17,000 in degree and 31,500 in diploma courses. The main emphasis in technical education, during the Fourth Plan, will be on improving quality and standards. The improvement programmes would relate to pre-service and in-service training of teachers, re-organisation of diploma courses in order to diversify and reorient them functionally to the needs of the industry, expansion and improvement of post-graduate engineering studies and research, curriculum development and preparation of instructional materials including laboratory equipment. The number of places for practical training in industry, which was increased from 2,000 in 1967-68 to 11,000 places in 1968-69, will be maintained at about the same level during the Fourth Plan. Centres of advanced study will be developed in aeronautics, material sciences and instrument technology. Facilities for part-time degree and diploma courses will be increased. Management studies at the Institutes of Management at Calcutta and Ahmedabad and in the universities will be further developed. Support will be given for further development to the Indian Institute of Science, Bangalore, the National Institute of Training for Industrial Engineering, the National Institute of Forge and Foundry and other institutions.

Allocation for technical education during the Fourth Plan : Rs. 54·32 crores for the States and Rs. 5·40 crores for the Union Territories.

EDUCATIONAL STATISTICS (1965-66)*

STATEWISE LIST OF EDUCATIONAL INSTITUTIONS

States/Territories	Universities	Board of Secondary and/or Intermediate Education	Arts & Science Colleges	Colleges for Commerce	Colleges for Physical Education	Teachers' Training Colleges
Andhra Pradesh	4	1	81	1	1	9
Assam	1	1	77	3	—	3
Bihar	6	1	134	2	1	7
Gujarat	3	1	84	14	1	11
Jammu & Kashmir	1	—	16	1	—	2
Kerala	1	1	100	—	—	19
Madhya Pradesh	8	1	137	2	2	11
Madras†	2	1	92	—	—	18
Maharashtra	6	2	159	19	5	29
Mysore	4	1	82	7	1	19
Orissa	2	1	60	—	—	4
Punjab‡	4	—	100	1	1	27
Rajasthan	3	1	64	2	1	11
Uttar Pradesh	9	1	183	—	3	11
West Bengal	7	1	161	11	1	14
Nagaland	—	—	2	—	—	—
A. & N. Islands	—	—	—	—	—	—
Dadra & Nagar Haveli	—	—	—	—	—	—
Delhi	1	1	32	1	—	2
Goa, Daman & Diu	—	—	4	—	—	2
Himachal Pradesh b	—	—	6	—	—	1
L. M. & A. Islands	—	—	—	—	—	—
Manipur	—	—	8	—	—	—
N.E.F.A.	—	—	1	—	—	—
Pondicherry	—	—	4	—	—	—
Tripura	—	—	4	—	—	3
Total (All India)	62	15	1,591	64	17	203

* Figures are provisional.

† Now Tamil Nadu.

‡ Composite State.

b. Before reorganisation in Nov. 1966.

STATEWISE LIST OF EDUCATIONAL INSTITUTIONS—(Continued)

States/Territories	Schools for General Education									
	Higher Secondary Schools (including multi-purpose Schools)	High Schools (including multi-purpose High Schools)	Post-Basic Schools	Middle/Senior Basic Schools	Primary/Junior Basic Schools	Pre-Primary Schools	Schools for Physical Education	Teacher Training Schools	Pre-primary Teacher Training Schools	Schools for the Handicapped
Andhra Pradesh ..	233	2,031	2	2,140	37,693	74	—	117	1	7
Assam	63	938	—	2,525	18,953	72	—	40 ¹	1	2
Bihar	378	1,626	3	6,387	42,789	49	2	111 ¹	—	12
Gujarat	—	1,600	40	8,000	12,000	550	3	80 ¹	—	30
Jammu & Kashmir	48	357	—	1,205	4,561	—	—	12 ¹	—	3
Kerala	—	1,147	3	2,453	6,941	138	2	105 ¹	3	7
Madhya Pradesh ..	1,240	—	—	4,140	34,863	275	1	105	2	4
Madras c	—	2,166	3	6,379	24,159	—	3	138 ¹	4	18
Maharashtra	115	3,473	—	12,321	29,027	550	21	267	12	41
Mysore	100	1,391	—	9,565	21,547	530 ²	17 ¹	81 ²	3	6
Orissa	16	914	—	3,121	24,721	—	1	98 ¹	—	2
Punjab@	570	1,030	2	1,610	16,656	12	—	20 ¹	—	10
Rajasthan	336	398	—	1,746	19,038	37	—	65 ¹	2	3
Uttar Pradesh ..	1,297	1,117	—	5,930	58,438	194	—	241 ¹	1	27
West Bengal ..	1,475	1,356	—	2,379	32,645	162	—	81	2	11
Nagaland	—	30	—	115	642	—	—	3	—	—
A. & N. Islands ..	3	—	—	8	114	—	—	1	—	—
Dadra & Nagar Haveli	—	2	—	18	61	2	—	—	—	—
Delhi	415	—	—	421	891	35	—	84 ¹	1	1
Goa, Daman & Diu	1	128	—	140	856	—	—	2	—	—
Himachal Pradesh b	52	85	—	350	2,066	12	—	5	—	—
L. M. & A. Islands..	3	—	—	11	16	1	—	—	—	—
Manipur	—	164	—	273	2,193	1	—	6 ¹	—	—
N.E.F.A.	6	3	—	35	311	4	—	1	—	—
Pondicherry ..	1	39	—	74	241	44	1	2 ¹	—	2
Tripura	61	9	—	131	1,968	370	—	3 ¹	—	—
Total (All India)	6,410	20,007	53	71,477	3,89,790	3,112	51	1,588	39	186

¹ Includes Under-graduate Teacher Training Colleges.² Data relates to the previous year.³ Includes other Teacher Training Institutions (one for drawing and 3 for Hindi).

@ Composite State.

b. Before reorganisation in November 1966.

c. Now Tamil Nadu.

ENROLMENT—UNIVERSITY STAGE

States/Territories	Ph.D./D.Sc./D. Phil etc. (in Arts, Science & Commerce)		M.A.		M.Sc.		M. Com.	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Andhra Pradesh ..	188	55	352	209	480	101	52	1
Assam	45	6	804	247	386	—	156	—
Bihar	384	33	4,224	694	981	103	272	1
Gujarat	140	40	1,975	575	775	85	40	20
Jammu & Kashmir ..	38	22	201	215	188	45	20	—
Kerala	69	24	893	534	664	518	180	5
Madhya Pradesh(a) ..	380	48	2,051	371	561	74	636	—
Madras (b)	82	12	768	338	1,056	352	93	—
Maharashtra	468	146	2,521	1,294	1,327	289	837	9
Mysore	363	55	621	255	850	181	130	—
Orissa	—	—	614	136	70	20	39	—
Punjab*	320	65	1,000	850	160	25	—	—
Rajasthan	115(a)	24(a)	977	410	508	115	183	—
Uttar Pradesh ..	2,096	472	9,566	3,197	4,445	444	1,809	2
West Bengal ..	571	134	2,111	2,470	1,288	471	1,277	13
Nagaland	—	—	—	—	—	—	—	—
A. & N. Islands ..	—	—	—	—	—	—	—	—
Dadra & Nagar Haveli	—	—	—	—	—	—	—	—
Delhi	865	313	1,134	975	210	123	69	—
Goa, Daman & Diu ..	—	—	4	—	7	—	—	—
Himachal Pradesh† ..	—	—	—	—	—	—	—	—

(a) Figures relate to 1964-65.

(b) Now Tamil Nadu.

* Composite State.

† Before reorganisation in Nov. 1966.

ENROLMENT—UNIVERSITY STAGE—(Continued)

States/Territories	Ph.D./D.Sc./D. Phil etc. (in Arts, Science & Commerce)		M.A.		M.Sc.		M. Com.	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
L. M. & A. Islands ..	—	—	—	—	—	—	—	—
Manipur	134	10	—	—	—	—	—	—
N.E.F.A.	—	—	—	—	—	—	—	—
Pondicherry	—	—	1	3	3	3	—	—
Tripura	—	—	—	—	—	—	—	—
Total (All India) ..	6,258	1,459	29,817	12,773	13,959	3,015	5,793	51

ENROLMENT—UNIVERSITY STAGE—(Continued)

States/Territories	M.Ed.		B.A. (Pass & Hons.)		B.Sc. (Pass & Hons.)		B.Com. (Pass & Hons.)	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Andhra Pradesh ..	18	5	6,550	2,395	13,047	2,954	4,278	21
Assam	33	58	11,002	3,905	3,951	430	1,554	2
Bihar	32	12	37,920	5,424	19,148	525	4,122	2
Gujarat	—	—	7,000	3,350	3,600	600	1,350	50
Jammu & Kashmir ..	8	6	4,015	1,742	93	—	93	—
Kerala	21	9	6,071	4,820	12,537	8,527	3,302	109
Madhya Pradesh (a)	76	3	12,486	2,522	8,237	1,032	3,341	15
Madras (b)	4	1	7,190	4,159	16,851	5,530	3,014	36
Maharashtra	316	121	9,456	7,679	8,101	2,253	7,216	190
Mysore	126	28	7,565	3,668	12,128	3,653	3,882	130
Orissa	8	2	3,873	730	3,390	550	88	—
Punjab*	40	15	5,100	3,700	3,800	542	1,500	3
Rajasthan	21	4	9,223	4,117	5,769	914	4,865	—
Uttar Pradesh ..	134	68	24,923	11,184	22,393	1,790	5,295	—
West Bengal	6	—	30,762	28,356	23,194	4,693	26,228	264
Nagaland	—	—	48	4	16	—	—	—
A. & N. Islands ..	—	—	—	—	—	—	—	—
Dadra & Nagar Haveli	—	—	—	—	—	—	—	—
Delhi	17	5	9,883	9,428	2,371	1,219	2,066	14
Goa Daman & Diu ..	—	—	96	128	191	55	—	—
Himachal Pradesh† ..	—	—	508	324	130	5	26	—
L. M. & A. Island ..	—	—	—	—	—	—	—	—
Manipur	—	—	1,616	248	335	59	69	—
N.E.F.A.	—	—	28	1	—	—	—	—
Pondicherry	—	—	1	3	3	3	—	—
Tripura	—	—	477	495	249	70	253	—
Total (All India) ..	860	337	1,95,845	98,402	1,59,579	35,484	72,524	836

* Composite State.

† Before reorganisation in November 1966.

(a) Figures relate to 1964-65.

(b) Now Tamil Nadu.

ENROLMENT—UNIVERSITY STAGE—(Continued)

States/Territories	Teacher Training (B.T./B.Ed. and equi- valent diplomas)		Bachelor of Physical Education and equivalent diplomas (B.P.E.)		I.A.		I.So.	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Andhra Pradesh ..	1,049	317	31	6	—	—	—	—
Assam	361	113	10	3	—	—	—	—
Bihar	882	247	126	—	—	—	—	—
Gujarat	875	225	—	—	6,775	3,150	6,425	675
Jammu & Kashmir(a)	250	162	—	—	—	—	—	—
Kerala	1,121	1,243	—	—	—	—	—	—
Madhya Pradesh(a) ..	1,239	222	147	45	—	—	—	—

(a) Figures relate to 1964-65.

ENROLMENT—UNIVERSITY STAGE—(Continued)

States/Territories	Teacher Training (B.T./B.E.C. and equivalent diplomas)		Bachelor of Physical Education and equivalent diplomas (B.P.E.)		I.A.		I.Sc.	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Madras(c)	1,220	663	—	—	—	—	—	—
Maharashtra	1,711	1,506	85	13	7,922	6,229	13,319	2,728
Mysore	1,098	339	29	3	—	—	—	—
Orissa	310	50	—	—	—	—	—	—
Punjab ‡	1,510	2,500	159	97	—	—	—	—
Rajasthan	1,085	185	15	3	—	—	—	—
Uttar Pradesh	3,465	1,786	69	12	1,13,059	28,012	79,824	7,152
West Bengal	1,945(b)	1,285(b)	112	14	—	—	—	—
Nagaland	—	—	—	—	—	—	—	—
A. & N. Islands	—	—	—	—	—	—	—	—
Dadra & Nagar Haveli	—	—	—	—	—	—	—	—
Delhi	—	—	—	—	—	—	—	—
Goa, Daman & Diu	37	26	—	—	115	106	297	64
Himachal Pradesh	58	44	—	—	—	—	—	—
L. M. & A. Islands	—	—	—	—	—	—	—	—
Manipur	—	—	—	—	—	—	—	—
N.E.F.A.	—	—	—	—	—	—	—	—
Pondicherry	—	—	—	—	—	—	—	—
Tripura	110	39	—	—	—	—	—	—
Total (All India) ..	18,433	11,160	783	196	1,27,871	37,497	99,865	10,619

(b) Including enrolment for M. Ed.

‡ Composite State.

(c) Now Tamil Nadu.

ENROLMENT—UNIVERSITY STAGE—(Continued)

States/Territories	Pre-University					
	Arts		Science		Commerce	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra Pradesh	3,785	919	15,818	2,875	1,340	20
Assam	8,295	3,571	4,098	287	676	1
Bihar	16,953	1,930	12,763	293	1,742	—
Gujarat	8,100	4,450	9,100	1,115	1,800	50
Jammu & Kashmir	3,172	1,280	—	—	34	—
Kerala	8,580	6,606	29,237	17,668	1,929	304
Madhya Pradesh (a)	—	—	—	—	—	—
Madras(b)	7,640	2,165	21,486	6,590	1,600	16
Maharashtra	14,766	8,676	19,851	3,701	14,062	485
Mysore	5,498	2,039	11,836	2,587	1,944	62
Orissa	3,542	632	3,794	815	105	—
Punjab ‡	13,200	6,500	12,100	1,200	35	—
Rajasthan	2,801	852	2,851	190	1,859	—
Uttar Pradesh	483	149	884	105	63	—
West Bengal	13,259	8,196	8,852	1,380	—	—
Nagaland	27	3	44	5	—	—
A. & N. Islands	—	—	—	—	—	—
Dadra & Nagar Haveli	—	—	—	—	—	—
Delhi	25	12	—	—	—	—
Goa, Daman & Diu	280	152	388	92	—	—
Himachal Pradesh	418	18	342	13	16	—
L. M. & A. Islands	—	—	—	—	—	—
Manipur	1,502	327	545	58	—	—
N.E.F.A.	16	1	—	—	—	—
Pondicherry	69	21	136	24	—	—
Tripura	272	171	133	19	—	—
Total (All India) ..	1,12,233	48,680	1,54,258	39,017	27,205	938

‡ Composite State.

(a) Figures relate to 1964-65.

(b) Now Tamil Nadu.

ENROLMENT—SCHOOL STAGE (1965-66)

States/Territories	Classes IX and above		Classes VI to VIII		Classes I to V		Pre-primary	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Andhra Pradesh ..	2,68,748	69,127	4,79,898	1,81,848	22,41,556	4,35,525	2,000	1,293
Assam ..	1,53,283	51,960	2,24,006	98,662	8,88,306	5,64,371	3,663	3,940
Bihar ..	4,05,196	31,209	5,69,147	91,452	28,89,801	9,13,288	1,946	1,053
Gujarat ..	2,17,000	65,000	4,22,000	1,95,000	18,73,000	10,10,000	20,700	17,200
Jammu & Kashmir ..	25,000	8,000	71,000	24,000	2,54,000	79,000	—	—
Kerala ..	2,11,936	1,64,930	4,97,741	3,92,411	15,83,359	13,78,315	4,562	4,736
Madhya Pradesh ..	2,10,000	40,000	4,34,000	1,16,000	21,34,000	8,66,000	9,266	10,207
Madras*	3,95,894	1,50,435	7,10,832	3,41,841	26,09,022	19,13,627	1,100	1,486
Maharashtra ..	4,72,434	1,52,432	8,95,015	3,66,190	31,97,500	20,36,761	20,500	19,500
Mysore ..	2,14,544	77,346	4,21,793	1,86,583	18,35,979	13,72,602	18,878	16,145
Orissa ..	91,903	15,347	1,88,917	45,983	11,67,177	6,00,534	—	—
Punjab † ..	2,12,100	53,250	4,10,800	1,37,700	14,50,400	8,60,500	500	400
Rajasthan ..	1,25,000	17,000	3,00,000	50,000	13,75,000	3,60,000	2,003	1,325
Uttar Pradesh ..	4,58,057	67,450	11,85,001	2,20,015	54,69,404	25,47,149	13,305	8,292
West Bengal ..	2,38,320	83,551	5,46,458	2,38,134	24,19,821	13,89,436	8,420	9,174
Nagaland ..	3,264	938	7,622	3,448	33,932	18,936	—	—
A. & N. Islands ..	320	157	964	468	6,431	3,835	—	—
Dadra & Nagar Haveli	154	52	376	142	3,818	1,208	35	43
Delhi ..	62,575	35,300	1,18,000	72,000	2,44,100	1,86,100	4,800	3,200
Goa, Daman & Diu ..	5,918	3,497	11,562	6,746	55,646	39,492	—	—
Himachal Pradesh@	10,503	2,212	29,370	7,460	95,823	43,533	253	221
L. M. & A. Islands ..	215	12	601	155	2,360	1,603	20	10
Manipur ..	8,623	2,516	15,882	6,332	47,718	27,348	17	18
N.E.F.A. ..	217	21	1,357	190	3,435	720	7,013	2,018
Pondicherry ..	4,562	1,693	7,802	3,917	27,603	18,966	1,625	1,146
Tripura ..	7,488	3,207	17,072	8,488	76,953	45,600	7,922	8,157
Total (All India) ..	37,90,021	10,90,350	75,63,040	27,83,446	3,19,87,279	1,77,32,839	1,27,928	1,09,574

* Now Tamil Nadu.

† Composite State.

@ Before reorganisation in Nov. 1966.

ENROLMENT—SCHOOL STAGE (1965-66)—(Continued)

States/Territories	Teacher Training Primary		Teacher Training Pre-Primary		Physical Education		Schools for the Handicapped	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Andhra Pradesh ..	9,371	5,796	89	186	—	—	412	95
Assam ..	3,375 ⁽¹⁾	950 ⁽¹⁾	—	26	—	—	63	35
Bihar ..	16,065 ⁽¹⁾	3,620 ⁽¹⁾	—	—	253 ⁽¹⁾	—	371	48
Gujarat ..	6,460 ⁽¹⁾	7,655 ⁽¹⁾	145	500	240	65	370	20
Jammu & Kashmir ..	776 ⁽¹⁾	181 ⁽¹⁾	—	—	—	—	36	—
Kerala ..	5,355 ⁽¹⁾	8,613 ⁽¹⁾	—	107	—	—	336	90
Madhya Pradesh ..	4,961 ⁽¹⁾	844 ⁽¹⁾	—	35	172	19	124	57
Madras*	12,712	8,340	187 ⁽¹⁾	418 ⁽¹⁾	496	148	1,155	649
Maharashtra ..	14,371 ⁽¹⁾	7,954 ⁽¹⁾	47	569	595	196	1,477	510
Mysore ..	5,690 ⁽²⁾	2,214 ⁽²⁾	—	193	1,523 ⁽¹⁾	127 ⁽¹⁾	267	67
Orissa ..	7,438 ⁽¹⁾	420 ⁽¹⁾	—	—	36	5	75	3
Punjab † ..	8,200 ⁽¹⁾	7,800 ⁽¹⁾	—	49	—	—	380	50
Rajasthan ..	6,420 ⁽¹⁾	1,410 ⁽¹⁾	27	49	76	20	155	8
Uttar Pradesh ..	15,539 ⁽¹⁾	4,244 ⁽¹⁾	—	98	95	26	855	235
West Bengal ..	2,614 ⁽¹⁾	1,029 ⁽¹⁾	—	74	—	—	459	282
Nagaland ..	80	—	—	—	—	—	—	—
A. & N. Islands ..	21	3	—	—	—	—	—	—
Dadra & Nagar Haveli	—	—	—	—	—	—	—	—
Delhi ..	336 ⁽²⁾	308 ⁽²⁾	—	68	263	205	—	—
Goa, Daman & Diu ..	77	38	—	—	—	—	—	—
Himachal Pradesh@	532	270	—	—	—	—	—	—
L. M. & A. Islands ..	—	—	—	—	—	—	—	—
Manipur ..	441 ⁽¹⁾	49 ⁽¹⁾	—	—	—	—	—	—
N.E.F.A. ..	—	—	—	—	—	—	—	—
Pondicherry ..	146 ⁽¹⁾	83 ⁽¹⁾	—	—	—	—	23	12
Tripura ..	354 ⁽¹⁾	45 ⁽¹⁾	—	—	—	—	—	—
Total (All India) ..	1,21,334	61,916	495	2,372	3,486	606	6,821	2,366

† Composite State.

@ Before reorganisation in November 1966.

⁽¹⁾ Includes enrolment in Under-Graduate Teacher

Training Courses.

⁽²⁾ Includes enrolment in other Teacher Training Courses (for Drawing and Hindi).⁽³⁾ Includes enrolment of

Arts and Crafts and Under-Graduate Teacher Training Courses.

* Now Tamil Nadu.

TEACHERS—SCHOOL STAGE

States/Territories	High/Higher Secondary/Multi-purpose/ Post-Basic Schools				Middle/Senior Basic Schools			
	Men		Women		Men		Women	
	Trained	Untrained	Trained	Untrained	Trained	Untrained	Trained	Untrained
Andhra Pradesh ..	23,044	5,005	4,845	1,021	8,930	2,466	2,841	586
Assam ..	1,829	9,968	396	1,383	2,987	7,809	469	1,016
Bihar ..	8,199	12,923	779	724	22,519	8,165	2,434	1,299
Gujarat ..	12,325	6,135	2,470	1,340	30,295	12,855	13,470	9,230
Jammu & Kashmir ..	2,702	1,422	1,147	251	1,932	1,923	599	304
Kerala ..	13,051	1,342	6,412	1,226	19,262	3,458	13,338	3,348
Madhya Pradesh ..	10,004	6,204	2,186	1,331	18,396	5,222	3,406	977
Madras c ..	32,781a	1,978a	10,917a	399a	—	—	—	—
Maharashtra ..	27,764	11,127	11,181	2,462	53,197	8,164	17,703	3,224
Mysore ..	7,486	6,217	2,252	1,297	28,669	13,683	8,971	3,612
Orissa ..	4,133	3,893	560	207	2,926	6,667	338	534
Punjab @ ..	20,700	2,800	9,200	1,200	9,500	700	5,600	620
Rajasthan ..	6,875	4,510	925	690	11,862	3,214	1,968	1,456
Uttar Pradesh ..	28,856	11,839	7,074	1,974	19,911	7,245	4,060	2,058
West Bengal ..	12,247	24,263	5,158	5,805	1,457	8,047	577	1,730
Nagaland ..	27	254	1	28	93	919	2	66
A. & N. Islands ..	65	2	7	—	43	2	9	7
Dadra & Nagar Haveli ..	13	3	—	—	31	28	14	12
Delhi ..	6,303	506	5,012	279	3,957	17	3,083	26
Goa, Daman & Diu ..	658b	—	721b	—	164b	—	101b	—
Himachal Pradesh *	1,708	169	472	49	1,637	350	275	61
L. M. & A. Islands ..	63b	—	1	98b	—	14b	—	—
Manipur ..	302	1,337	30	93	144	989	19	46
N.E.F.A. ..	59	86	2	3	64	113	3	17
Pondicherry ..	258	233	152	107	321	86	203	99
Tripura ..	395	734	116	187	400	304	73	115
Total (All India) ..	2,21,126	1,13,450	71,294	22,066	2,37,933	91,826	79,455	30,442

a. Includes Middle Senior Basic Schools. b. Women and men together. c. Now Tamil Nadu. @ Composite State. * Before reorganisation in Nov. 1906.

TEACHERS—SCHOOL STAGE—(Continued)

States/Territories	Primary/Junior Basic Schools				Pre-Primary Schools			
	Men		Women		Men		Women	
	Trained	Untrained	Trained	Untrained	Trained	Untrained	Trained	Untrained
Andhra Pradesh ..	57,847	7,730	15,624	900	23	3	95	65
Assam ..	14,519	13,296	2,107	2,959	12	5	36	59
Bihar ..	50,066	12,774	4,141	3,237	35	17	39	67
Gujarat ..	5,975	7,215	1,625	2,980	303	86	560	390
Jammu & Kashmir ..	1,768	2,467	657	690	—	—	—	—
Kerala ..	33,238	2,264	22,891	1,490	6	1	145	36
Madhya Pradesh ..	52,444	11,378	7,479	1,699	43	15	292	145
Madras c ..	85,961	999	50,825	239	—	—	162	5
Maharashtra ..	34,976	14,471	10,945	3,711	40	50	800	450
Mysore ..	16,003	14,495	3,207	2,741	14	4	525	595
Orissa ..	26,696	19,018	959	1,421	—	—	—	—
Punjab @ ..	25,600	3,700	10,900	800	9	—	18	1
Rajasthan ..	27,338	7,086	2,332	2,744	13	7	59	67
Uttar Pradesh ..	85,760	50,120	8,721	14,408	101	165	466	280
West Bengal ..	36,585	54,478	6,094	6,986	29	9	305	66
Nagaland ..	311	1,100	8	138	—	—	—	—
A. & N. Islands ..	156	21	66	20	—	—	—	—
Dadra & Nagar Haveli ..	23	40	4	11	—	—	1	1
Delhi ..	3,715	9	3,697	16	—	—	130	—
Goa, Daman & Diu ..	698a	2,023a	—	—	—	—	—	—
Himachal Pradesh *	2,245	988	605	180	1	—	22	1
L. M. & A. Islands ..	82a	9a	—	—	1	—	—	—
Manipur ..	1,341	4,321	81	322	—	—	1	1
N.E.F.A. ..	128	286	5	31	1	3	1	—
Pondicherry ..	361	132	88	59	—	6	19	33
Tripura ..	1,187	1,604	228	616	228	—	126	23
Total (All India) ..	5,64,249	2,29,992	1,52,689	48,398	858	371	3,742	2,285

a. Break-up figures for men and women are not available. @ Composite State. * Before reorganisation in November 1906. c. Now Tamil Nadu.

STUDENTS—AGE-GROUPS (SCHOOL-STAGE)

(Figures in thousands)

States/Territories	6-11 years		11-14 years		14-17 years	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra Pradesh	24,65	24,61	13,04	12,97	12,28	12,20
Assam	9,88	10,02	5,09	5,02	4,58	4,42
Bihar	36,74	36,21	19,59	18,77	17,44	16,19
Gujarat	—	—	—	—	—	—
Jammu & Kashmir	2,44	2,27	1,36	1,22	1,28	1,15
Kerala	12,65	12,16	6,76	6,62	6,16	6,21
Madhya Pradesh	25,77	25,16	12,79	12,32	11,18	10,64
Madras ^c	22,27	21,79	11,74	11,54	11,00	11,00
Maharashtra	29,60	29,00	15,93	15,20	14,68	13,58
Mysore	17,66	17,36	8,90	8,74	8,26	8,15
Orissa	12,33	12,73	6,54	6,81	6,08	6,22
Punjab†	17,12	15,20	9,20	8,10	8,27	7,40
Rajasthan	16,63	15,53	8,59	8,04	7,80	7,26
Uttar Pradesh	55,94	51,96	28,29	26,83	26,34	24,60
West Bengal	26,76	26,92	13,58	13,51	12,56	12,19
Nagaland	27	27	14	14	13	13
A. & N. Islands	5	4	2	2	2	2
Dadra & Nagar Haveli	2,30	1,99	1,27	1,07	1,22	1,00
Delhi	—	—	—	—	—	—
Goa, Daman & Diu	92	87	49	47	45	44
Himachal Pradesh@	2	2	1	1	1	1
L. M. & A. Islands	67	68	33	35	29	31
Manipur	—	—	—	—	—	—
N.E.F.A.	24	24	12	12	12	11
Pondicherry	92	90	43	43	37	38
Tripura	—	—	—	—	—	—
Total (All India)	3,34,22	3,23,67	1,73,89	1,67,43	1,59,28	1,51,75

‡ Composite State. @ Before reorganisation in November 1966. c. Now Tamil Nadu.

FOURTH FIVE YEAR PLAN

(Continued from page 263)

Outlay, Central Assistance and States' Resources for State Plans

(Rs. crores)

	Annual plans 1966-69		Fourth Plan		
	Total outlay	Central assistance	Total outlay	Central assistance	State's resources
Andhra Pradesh	232.02	161.6	360.55	240.0	120.55
Assam	87.11	85.8	225.50	220.0	5.50
Bihar	223.23	155.2	441.01	338.0	103.61
Gujarat	207.14	76.4	450.22	158.0	292.22
Haryana	72.82	46.4	190.49	78.5	111.99
Jammu & Kashmir	62.09	60.0	145.00	145.0	—
Kerala	139.75	89.7	258.40	175.0	83.40
Madhya Pradesh	172.64	141.9	355.96	262.0	93.96
Maharashtra	408.67	111.0	811.80	245.5	566.30
Mysore	179.77	109.2	327.10	173.0	154.10
Nagaland	16.70	16.7	35.00	35.0	—
Orissa	131.58	80.7	180.50	160.0	20.50
Punjab	112.77	51.8	271.40	101.0	170.40
Rajasthan	135.65	119.4	238.96	220.0	18.96
Tamil Nadu	249.95	121.0	502.00	202.0	300.00
Uttar Pradesh	456.03	259.4	951.00	526.0	425.00
West Bengal	163.83	112.7	320.51	221.0	99.51
Total	3,051.75	1,798.9	6,066.00	3,500.0	2,566.00

NOTE.—(1) Plan outlay figures are actuals for 1966-67 (Rs. 991.4 crores) and 1967-68 (Rs. 1,001.5 crores); anticipated expenditure for 1968-69 (Rs. 1,058.9 crores). The actual for 1968-69 may turn out to be lower. (2) Figures of Central assistance are allocations for 1966-69.

* Plan Outlays—Union Territories—Annual Plans 1966-69 and Fourth Plan respectively in Rs. crores: Andaman and Nicobar Islands 4.82; 11.00; Chandigarh 6.82; 7.50; Dadra and Nagar Haveli 0.90; 2.24; Delhi 67.72; 155.65; Goa, Daman and Diu 21.36; 37.00;

Himachal Pradesh 41.54; 94.40; Laccadive, Amindivi and Minicoy islands 1.17; 1.96; Manipur 8.71; 28.00; NEFA 6.79; 16.29; Pondicherry 5.25; 12.00; Tripura 12.96; 31.91; total 178.04; 397.95.

NOTE.—Plan outlay figures are actuals for 1966-67 and 1967-68, and anticipated for 1968-69.

IMPORT-EXPORT TRADE—(Contd. from page 75)

India's export achievement in 1968-69 has been highly impressive. Exports soared by 13.1 per cent to a record high of Rs. 1,353.8 crores. Our exports totalled only Rs. 1,197.0 crores in 1967-68 and Rs. 1,156.6 crores in 1966-67. The increase in exports during 1968-69 is the biggest ever recorded in a single year since 1963-64, when exports rose by 15.7 per cent.

The current upsurge in exports marks a complete recovery from the shock of the devaluation of the rupee.

Imports declined by 8.2 per cent to Rs. 1,790 crores in 1968-69. The trend towards import contraction has thus been sustained. Imports were lower at Rs. 1,950.5 crores in 1967-68 as compared with Rs. 2,078.4 crores in 1966-67.

PUBLIC FINANCE—(Contd. from page 109)

The duty on pump sets has been withdrawn, but the excise on fertiliser stays. A special exemption from wealth tax has been provided for agricultural land, thus raising the total ceiling of exemption for agricultural wealth. Relief has been provided for preserved foods prepared by small and cottage industries and for rayon filament made by small units. The duty on cement has been cut by Rs. 1.86 per tonne.

Moving for the consideration of the Finance Bill, the Deputy Prime Minister, Mr. Morarji Desai, announced a series of budget concessions which would result in a revenue loss of Rs. 5.09 crores.

The duty on cotton fabrics falling under the new sub-item I(I) of item 19 of the Central excise tariff is being reduced from 15 per cent to 7½ per cent in respect of all varieties excepting cotton blankets whose value does not exceed Rs. 2.50 per square metre and in the case of blankets if the value does not exceed Rs. 4 per square

metre. The excise on cotton yarn in count groups 22-29 NF, 14-22 NF and less than 14 NF is being reduced by 8 paise, 5 paise and 3 paise per kg., respectively.

As a concession to the powerloom sector of the textile industry the duty in respect of all varieties falling under sub-item I (I) of the item 19 of the central excise tariff when manufactured in the powerloom sector is being reduced to two-thirds of the rates applicable to similar fabrics made by the mill sector.

Besides this excise relief, a concession is granted to companies ending their accounts in December in the matter of payment of advance tax; also relief has been provided in the case of penalties for defaulters in filing wealth tax returns.

The Finance Minister also announced a cut in the postage rate for newspapers. But he has simultaneously raised the charges for registration of postal articles from 70 paise to 75 paise.

PUBLIC HEALTH

MATTERS connected with health fall largely in the State field.

The Centre is, however, directly responsible even for State subjects in the Union Territories of Delhi, Andaman and Nicobar Islands and Minicoy and Amindivi Islands.

The Central Health Service covers all medical and public health posts under the Central Government and the Union Territories other than those under the Ministries of Railways and Defence, and is governed by the Central Health Service (Amendment) Rules, 1966 which came into force from 9th September, 1966.

CENSUS (Dec. 31, 1966).

(Latest available)

Hospitals and Dispensaries 14,600*; Beds 2,400,100*; Primary Health Centres 4,683(a); Medical Colleges 91(c); Annual admissions 10,580; Dental Colleges 14(b); Annual admissions 544(b); Registered Doctors 1,05,310; Registered Dentists 4,192(d); Nurses† 57,621; Auxiliary Nurse Midwives 15,988; Midwives 62,537; Health Visitors 5,382; Pharmacists 56,976§; Vaid 1,600,000@; Malaria Units 395.25(e); Sanitary Inspectors 18,000; Filaria

Control Units 72(e); T.B. Clinics 459(a); T.B. Training Centres 15(a); B.C.G. Teams 216(f); T.B. Beds 36,000(a); T.B. tested by the teams 241.69 million (g); T.B. Hospitals and Sanatoria 150(a); B.C.G. Vaccinated 102.89 million (g); Leprosy Control Centres 182; V. D. Headquarters Clinics 7(d); V.D. District Clinics 135(d).

NATIONAL INSTITUTE OF COMMUNICABLE DISEASES

Objectives and functions: To undertake research into all basic facts underlying the prevalence and spread of communicable diseases and their prevention and study of aetiological agents, vectors, mechanism of infection, including endemic and epidemic phenomena, and any zoonotic reservoirs. Clinical investigations in communicable diseases, including treatment and study of early diagnostic technique, relapse problems and effects of new drugs.

Arrangements will be made at the Institute for training research workers and training personnel in epidemiology, medical entomology and control of communicable diseases. The participants at those courses included Medical Officers sponsored by the W.H.O. & SEARO from countries mainly in the South East Asia region.

* As on March 31, 1966; † Combined number for Junior and Senior grade nurses; § Provisional; @ Registered or enlisted for registration; (a) As on Sept. 30, 1967; (b) Dec. 31, 1967; (c) March 31, 1963; (d) Oct. 31, 1967; (e) Aug. 31, 1967; (f) June 30, 1967; (g) Nov. 30, 1967.

The Institute has been recognised by several universities for the purpose of post-graduate research degrees of Ph.D. & D.Sc. (PH). The Institute assists the National Smallpox Eradication Programmes in the country.

Veneral Diseases Control Programme

The main principles followed in the V.D. programme were:—(i) Treatment of detected cases; (ii) Epidemiological measures to detect cases; (iii) Educational measures.

During the Second and Third Five Year Plans 142 clinics were established in the different States. It is proposed to establish 10 V.D. Clinics during 1969-70.

A programme for periodical Inter-Laboratory Evaluation and of Serological tests for Syphilis, is being carried out with a view to keeping up a high and uniform standard. A central V.D. Advisory Committee has been constituted.

The country is self-sufficient for the diagnostic V.D.R.L. Antigen which is produced in the country.

Yaws: Yaws is prevalent in some areas of Andhra Pradesh, Maharashtra, Madhya Pradesh and Orissa. While the work in Andhra Pradesh has been completed, it is expected that these teams would cover the entire area in Madhya Pradesh and Orissa shortly.

Cancer: The number of persons who die of cancer annually is believed to be in the neighbourhood of 2 lakhs.

There are 50 general hospitals in the country where facilities for cancer treatment are available in the form of surgery, radium etc. They are two in Andhra Pradesh, 4 in Assam, 1 in Bihar, 2 in Delhi, 3 in Gujarat, 3 in Kerala, 8 in Tamil Nadu, 3 in Maharashtra, 4 in Mysore, 2 in Orissa, 5 in Punjab, 4 in Rajasthan, 4 in U.P. and 4 in Calcutta.

Research is conducted at the Indian Cancer Research Centre, Bombay. Tata Memorial Hospital, Bombay, Chittaranjan Cancer Hospital, Calcutta, Chittaranjan National Cancer Research Centre, Calcutta, and Ruplal Nandi Cancer Research Centre, Chandarnagore.

Cobalt '60' Unit

The Govt. of Canada have donated through the Colombo Plan Capital Aid Programme 19 Cobalt '60' Therapy Units. The following are the names of the recipient institutions: Tata Memorial Hospital, Bombay (two units); Chittaranjan Cancer Hospital, Calcutta; Christian Medical College and Hospital, Vellore; Christian Medical College and Hospital, Ludhiana; Cancer Institute, Madras; Medical College, Trivandrum; Medical College, Patna; Radium Institute and Cancer Hospital, Hyderabad; S.C.B. Medical College and Hospital, Cuttack; J.K. Institute of Radiology and Cancer Research, Kanpur; Medical College Hospital, Calcutta; Swami Man Singh Hospital, Jaipur; Safdarjang Hospital and All India Institute of Medical Science, New Delhi; P.B.S. Medical Hospital, Bikaner; Victoria Hospital Medical College, Dibrugarh; Shri M. P. Shah Cancer Hospital, Ahmedabad; Miraj Medical Centre, Miraj; Medical College, Pondicherry.

Medical Radio'ogy

The following medical institutions impart training in medical radiology.

Institute of Medical Sciences, Osmania Medical College, Hyderabad; Darbhanga Medical College, Laherisara; Medical College, Baroda; B.J. Medical College, Ahmed-

bad; Medical College, Trivandrum; G.R. Medical College, Gwalior; Barnard Institute of Radiology, Madras; Christian Medical College, Vellore; Madras Medical College, Madras; Madurai Medical College, Madurai; Stanley Medical College, Madras; Grant Medical College, Bombay; Topiwala National Medical College, Bombay; Armed Forces Medical College, Poona; S.C.B. Medical College, Cuttack; Institute of Post-graduate Medical Education and Research, Chandigarh; S.M.S. Medical College, Jaipur; Kinz George Medical College, Lucknow; Sarojini Naidu Medical College, Agra; Ganesh Shankar Vidyarthi Memorial Medical College, Kanpur; Maulana Azad Medical College, New Delhi; Lady Hardinge Medical College, New Delhi; All India Institute of Medical Sciences, New Delhi; Safdarjang Hospital, New Delhi.

PUBLIC HEALTH AGENCIES

A Central Council of Health exists with the Union Minister for Health, Family Planning and Urban Development as chairman and State Health Ministers as members.

The body in charge of research is the Indian Council of Medical Research.

List of Medical Research Institutes/Laboratories in India: Indian Council of Medical Research, Medical Enclave, New Delhi; Indian Cancer Research Centre, Bombay; Central Research Institute, Kasauli (Himachal Pradesh); All India Institute of Hygiene and Public Health, Calcutta; School of Tropical Medicine, Calcutta; Malaria Institute of India (Central Institute for Communicable Diseases), Delhi; Central Drugs Laboratory, Government of India, 3, Kyd Street, Calcutta; Haffkine Institute, Bombay; Nutrition Research Laboratories, Tarnaka, Hyderabad-7 (Dn.); Pasteur Institute of Southern India, Coonoor; K. E. VII Memorial Pasteur Institute, Shillong; Government Vaccine Institute, Namkum (Ranchi); Regional Research Laboratory, Jammu, Tawi; B. C. G. Laboratory, Guindy, Madras-15; Vaccine Institute, Public Health Institute, Mysore, Bangalore; Leprosy Research Centre, Madras; King Institute, Guindy, Madras; Virus Research Centre (B. J. Medical College, Old Building), Poona; Vallabhbhai Patel Chest Institute, University of Delhi; Pasteur Institute, School of Tropical Medicine, Calcutta-12; Cancer Institute, Madras; All India Institute of Mental Health, Bangalore; Central Drug Research Institute, Lucknow; Chittaranjan Cancer Research Centre, Calcutta; Radium Research and Cancer Hospital, Hyderabad (Andhra Pradesh); Institute of Post Graduate Medical Education and Research, Calcutta; Central Leprosy Teaching and Research Institute, Tirumani; National Chemical Laboratory, Poona; All India Institute of Medical Sciences, New Delhi; National Institute of Experimental Medicine and Biochemistry, Calcutta-13; Central Food Technological Research Institute, Mysore-2; Institute of Child Health, Calcutta; National Medical Institute, Calcutta; Institute of Ophthalmology, Aligarh; Pasteur Institute, Patna; Bose Institute, Calcutta; Institute of Venereology, Madras; Institute of Obstetrics and Gynaecology, Madras; Barnard Institute, Madras.

CONTROL OF DISEASES

Steps are being taken to control a number of diseases that are rampant.

MALARIA

Under the National Malaria Eradication Programme with 393.25 units functioning all over the country a.

population of 502 million is protected. The actual position of the units during 1968-69 was as follows:

Phase	Units	Population in million	Percentage
Attack	112-985*	141	28
Consolidation ..	70-385	91	18
Maintenance..	209-88	270	5

* Including total of 71-34 unit areas (i.e. 91 million population) reverted to Attack phase from Consolidation (51-70) and Maintenance (19-00).

The estimated expenditure on National Malaria Eradication Programme during 1968-69 is estimated to be Rs. 16.66 crores.

The WHO and the U.S.A.I.D. are assisting the programme in India.

FILARIA

An outlay of Rs. 5.50 crores has been suggested for the National Filaria Control Programme during the Fourth Five Year Plan.

Three Filariasis Training Centres, one each at Calicut, Rajahmundry and Varanasi, have been established for training personnel, conducting research, carrying out surveys in limited areas and evaluation of the activities of the control units of the States on a regional basis.

Under the programme, 67 Control Units are functioning in 15 States and Union Territories giving protection to about 7 million persons. Besides, 5 Headquarters Units, three Research-cum-Training Centres, 23 Filaria Clinics and 39 Co-ordination Committees for vector control are functioning in various towns and cities.

LEPROSY

It is estimated that there are about 2.5 million leprosy patients in India, the incidence in some places being as high as 40 per thousand. About 20 per cent of the estimated cases are of the infective type.

In India the problem of leprosy is massive in two States and is high in six States. The estimation of cases in these States has been done on the basis of available epidemiological data. In between Andhra Pradesh and Madras, it has been estimated that there are nearly half the total number of cases of leprosy in India.

The names of the States with population in millions and estimated number of cases in lakhs respectively are as follows:—

Madras 33.6-6.4; Andhra Pradesh 36.0-5.2; Bihar 46.5-2.8; Maharashtra 37.2-2.2; Mysore 17.2 (Population of endemic zones only)—1.4; Orissa 16.6—1.9; U. P. 29.2 (Population of endemic zones only)—1.4 West Bengal 35.0-2.4; Remaining States N.A.—1.3; Total estimated no. of cases in lakhs 25.0.

As on December 31, 1968, there were 182 leprosy control units, 1,130 S.E.T. Centres (Survey, Education and Treatment Centres) attached to Hospitals, Primary Health Centres, Dispensaries, etc. functioning in the country.

Upto June 1968 the achievements under the National Leprosy Control Programme are as follows:—

The Central Leprosy Teaching and Research Institute, Chingleput undertakes research in the various problems concerning leprosy and promotes field studies for the application of the results of the research to control the

spread of leprosy. It also functions as a centre for offering technical advice and guidance for the promotion of anti-leprosy work on sound lines. This institute makes available its services for the investigation of special problems in all parts of the country. Training Courses for medical officers, para-medical workers, physiotherapy technicians, laboratory technicians etc. are conducted in this institution.

13 Leprosy Training Centres have been established one each in Kerala, Madhya Pradesh, Mysore, Bihar, Orissa, Uttar Pradesh; two each in Andhra Pradesh, Tamil Nadu, Maharashtra and West Bengal, for the training of Para-Medical workers.

The WHO and the UNICEF assist the Government of India and the State Governments in the National Leprosy Control Programme in the shape of personnel, fellowships, transport, equipment, drugs, teaching aids and stipends for trainees.

Private bodies like the Mission Hind Kusht Nivaran Sangh (Indian Leprosy Association) and Gandhi Memorial Leprosy Foundation have been taking active part in controlling leprosy.

Population covered 71.7 million; persons examined 36.9 million; cases detected 346,928; cases recorded 739,785; cases registered for treatment 669,587; healthy contacts registered for observation 1,873,686.

TRACHOMA

Trachoma infection is highly endemic in the States of Punjab including Haryana (79.1%), Rajasthan (74.3%), Uttar Pradesh (68.1%), and Gujarat (56.6%). Amongst the group of moderately endemic areas where the prevalence was noted to be less than 50 per cent but more than 20 per cent were the States of Madhya Pradesh (41.3%), Bihar (35.6%), Assam (25.2%), and Mysore (22.6%). In low endemic areas where the prevalence was noted to be under 20 per cent were the States of Jammu & Kashmir (16.8%), Maharashtra (11.3%), Kerala (8.7%), Tamil Nadu (4.6%), Orissa (2.7%), West Bengal (0.5%), Andhra Pradesh (5.3%).

About 4.5 million are estimated to be blind in India in comparison to the total world estimates of about 15 million. About 60 to 80 per cent of the blindness is preventable.

National Trachoma Control Programme: The programme is being implemented in Punjab, Haryana, Rajasthan, Uttar Pradesh and Gujarat and on a limited scale in the States of Bihar, Jammu & Kashmir, Madhya Pradesh and Mysore.

But by the end of the 3rd Plan population coverage of 6.8 million was achieved against a target of 5.54 million.

During the Fourth Plan it is proposed to bring an additional population of about 26.98 million under the Control Operations, the proposed additional coverage for the period 1969-70 being 2.14 million.

The headquarters of the programme are located at Aligarh with the object of: (1) Planning; (2) Technical supervision and guidance to the States; (3) Training of the national and international workers; and (4) continuing concurrent field research in control methodologies.

The programme is associated with two international agencies — World Health Organisation and UNICEF.

TUBERCULOSIS

Up to the end of September 1968, a total of about 247 million persons were tuberculin tested and 114 million

persons were BCG vaccinated from the inception of the campaign in 1949. So far 25 million people of which 9.93 lakhs are newborns have been BCG vaccinated without a tuberculin test. During 1968-69, 63.09 lakh persons were BCG vaccinated from Jan. to Sept. 1968 (9 months). The total number of BCG teams in the country now comes to 221.

T.B. Demonstration and Training Centres: Fifteen Training and Demonstration Centres are functioning in 14 States and Union Territories. Effort is being made to equip them with mobile X-ray units and culture laboratory equipment.

National Tuberculosis Institute, Bangalore: This institute runs two training courses of 13 weeks' duration each every year for the training of medical officers and other para-medical staff required to man the District Tuberculosis Centres. The Institute has also been recognised for training at the international level and the WHO fellows from various foreign countries participating in the Prague International courses on epidemiology and control of tuberculosis have been visiting the Institute every year for about 4 weeks' training since 1966. The various field research activities under the National TB control programme are also being undertaken at the Institute.

T. B. Clinics: There are 502 T.B. Clinics in the country, out of which 199 are equipped with miniature X-ray and laboratory facilities. The international bodies like WHO & UNICEF are actively assisting the development of these District T.B. Centres.

GOITRE

Endemic goitre associated with cretinism, deaf-mutism and various other grades of physical and mental deterioration is prevalent in the northern parts of Kashmir, Punjab, Himachal Pradesh, Bihar, Uttar Pradesh, West Bengal, Assam, N.E.F.A. and Manipur. According to the latest available data, about 40 to 45 million people inhabit this goitrous belt of the country and about 9 to 10 million of them suffer from goitre.

During the Fourth Five Year Plan nine more spray type of iodisation plants with a total capacity of two lakh tonnes of iodised salt per annum are proposed to be installed to cater to the needs of 45 million people.

SMALL-POX

Under the National Small-pox Eradication Programme, out of a total population of 524 million (mid-year estimated population of 1968) 99.88 million primary vaccinations and 533.60 million revaccinations have been performed up to 1st December 1968. As against 71,214 cases and 16,255 deaths in 1967 (up to October) 24,003 cases and 5,460 deaths have been reported in the corresponding period in 1968 indicating 66 per cent reduction both in morbidity and mortality.

To meet the requirements of the vaccine, the Government of the USSR have gifted 750 million doses of vaccine, besides 19.09 million doses obtained from Netherlands, Switzerland, U.K., Madagascar, German Protestant Organisation and the USAID as free gift.

In order to make India self-sufficient UNICEF have further agreed to give additional equipment worth \$ 380,000 besides 8 Shelf driers, 4 Centrifugal driers and other ancillary equipment already supplied by them. Preliminary action for the installation of the additional equipment at Patwadangar and Belgaum Institute is being taken.

CHOLERA

During the year 1968 (up to end of December), 20,749 cases and 3,353 deaths due to cholera were reported in

the country as against 12,180 cases and 2,608 deaths during the previous year.

The Central Cholera Organisation undertook the task of delineation of endemic foci. For the 58 selected endemic districts, data were collected in respect of smaller administrative units in order to analyse and pinpoint the endemic foci in these districts.

MATERNITY

Maternity and Child Welfare are very important components of health service. 15 States and two Union Territories have established posts of Assistant Directors of Health Services to direct Maternity & Child Welfare Services.

Non-official bodies engaged in welfare work are the Indian Council for Child Welfare, New Delhi; The Kasurba Gandhi Memorial Trust; The Central Social Welfare Board; and the Indian Red Cross Society.

In the rural areas maternity and child welfare services are incorporated as a function of the primary health centres. Up to March 31, 1967, 5,083 primary health centres and 17,521 sub-centres—attached to the Primary Health Centres—have been established.

In Urban area M.C.W. services are available at M.C.H. Centres established by voluntary organisations, local bodies and State Governments.

DEFECTIVES

It is estimated that the total number of blind is about 4.39 million and the deaf between 10 and 15 lakhs.

There are in all 131 institutions for the blind and 71 for the deaf and 51 for the mentally handicapped. 23 institutions cater for the orthopaedically handicapped children.

The Government of India give scholarships to blind and deaf persons between the age of 16 and 30 in order to help them to undertake higher academic education, or, professional, vocational or technical training in normal institutions of learning. Scholarships are also awarded to orthopaedically handicapped children and adults who fall in the age-group of 12-30.

The Training Centre for the Adult Blind at Dehra Dun imparts training in engineering and non-engineering trades.

The Central Braille Press at Dehra Dun has already published several Braille books in English, Hindi and other regional languages.

The National Library for the Blind in Dehra Dun has 590 members on the roll which circulates about 1,200 volumes of braille literature every month.

There are special employment exchanges for the physically handicapped at Bombay, Delhi, Madras, Hyderabad, Bangalore, Calcutta, Ahmedabad, Chandigarh and Kanpur and the total number of placements made by these exchanges since their inception up to 31st Dec. 1965 is 2,189.

There are also Centres at Bombay, Delhi and Narendrapur (W. Bengal) for the Training of Teachers of the Blind on regional basis. During 1966-67 about 30 teachers completed their training.

MENTAL DISEASES

The number of mentally ill persons in India who need institutional treatment is estimated at 1.5 million, and of psycho-neurotics about 3 million. The number of hospital beds is a little less than 25,000. Qualified psychiatrists number about 250, and those practising but formally unqualified about 1,000.

There are at present 51 institutions (25 Government and 26 private) for mentally retarded and handicapped.

Major centres are in : Chandigarh (1), Uttar Pradesh (5), Mysore (2), Maharashtra (19), Tamil Nadu (1), Madhya Pradesh (1), Kerala (1), Gujarat (3), Delhi (7), Bihar (2) and Andhra Pradesh (2).

At present there are 41 mental hospitals with accommodation for about 25,000 patients.

The following is a list of mental hospitals in India :

Government Mental Hospital, Waltair; Hospital for Mental Diseases, Hyderabad; Mental Hospital, Tezpur; Hospital for Mental Diseases, Ranchi; Ranchi Manasika Arogya Shala, Ranchi; Mental Hospital, Ahmedabad; Mental Hospital, Baroda; Mental Hospital, Bhavnagar; Mental Hospital, Bhuj; Mental Hospital, Jamnagar; Mental Hospital, Srinagar; Mental Hospital, Trivandrum; Mental Hospital, Trichur; Mental Hospital, Calicut; Government Mental Hospital, Madras; Mental Hospital, Indore; Mental Hospital, Gwalior; Government Mental Hospital, Bangalore; Government Mental Hospital, Dharwar; Mental Hospital, Thana; Mental Hospital, Ratnagiri; Central Mental Hospital, Yeravada; Mental Hospital, Nagpur; Private Hospital, Miraj; Mental Hospital, Amritsar; Mental Hospital, Jaipur; Mental Hospital, Jodhpur; Orissa Red Cross Mental Health Institute, Cuttack; Mental Hospital, Varanasi; Mental Hospital, Agra; Mental Hospital, Bareilly; Nur Manzil Psychiatric Centre, Lucknow; Mental Observation Ward, Calcutta; Lumbini Park Mental Hospital, 24 Parganas; Bangiaunmad Ashram, Calcutta; Mental Hospital, Calcutta; Bodhi Peet Mental Hospital, Calcutta; Mental Hospital, Mankundu, Hooghly; Mental Hospital, Delhi; Mental Hospital, Panaji; Kasturba Sevashram Mental Hospital, Masood Bazar.

The All-India Institute of Mental Health, Bangalore, conducts various Post-Graduate Courses in : (i) M.D. in Psychological Medicine; (ii) Diploma in Psychological Medicine (DPM); (iii) Diploma in Medical & Social Psychology; (iv) Ph.D. in Clinical Psychology; (v) Diploma in Psychiatric Social Work (DPSW). In addition to these, M.S. Course in Neurosurgery has been sanctioned. The M.D. course in Neurology is to commence soon. The Institute is affiliated to the Bangalore University for Post-Graduate courses. Post-certificate course in Psychiatric Nursing (D.P.N.) is also conducted at the Institute. This Diploma is recognised by the Government of India and the Indian Nursing Council.

PUBLIC HEALTH MEASURES

There were up to September 30, 1968, 4,840 primary health centres and 21,752 sub-centres had been established in 4,997 C.D. blocks.

Total number of primary health centres functioning on Sept. 30, 1968 (State-wise): Andhra Pradesh 409; Assam 99; Bihar 587; Gujarat 250; Haryana 89; Jammu & Kashmir 69; Kerala 163; Madhya Pradesh 428; Tamil Nadu 293; Maharashtra 377; Mysore 243; Nagaland Nil; Orissa 282; Punjab 120; Rajasthan 161; Uttar Pradesh Nil; West Bengal 12; Union Territories: Delhi 2; Himachal Pradesh 50; Manipur 12; Tripura 15; N.E.F.A. 68; Pondicherry 12; A. & N. Islands 1; L. M. & A. Islands 3; Goa: Nil; Dadra and Nagar Haveli 1; Chandigarh: Nil.

Water Supply and Sanitation

National Water Supply and Sanitation Programme: Forty-four urban schemes at a total estimated cost of Rs. 633.61 lakhs were approved by the Central Public

Health Engineering Organisation during 1968-69. Six hundred rural water supply schemes at a total estimated cost of Rs. 159.4 lakhs were approved by the State Governments.

DRUGS

The control over imported drugs is exercised by the Central Government through its offices at the ports of Bombay, Calcutta, Cochin and Madras.

Manufacture by units employing capital exceeding Rs. 10 lakhs is regulated by the Directorate-General of Technical Development, Central Government. Manufacture by units with capital less than Rs. 10 lakhs is regulated by the respective State Directorates of Industries. Control over 'new drugs', imported or indigenously manufactured is exercised by the Central Drugs Control Organisation.

The Drugs and Cosmetics Act has been amended empowering the Central Government to assist State Governments in exercising control over the quality of drugs and cosmetics manufactured in the country. Ayurvedic and Unani medicines have been brought under the purview of the Drugs and Cosmetics Act. Rules for the control of Homoeopathic medicines under the Drugs and Cosmetics Rules have been published and have been brought into force.

NURSING

At the end of the year 1966, there were 57,621 registered nurses, 62,537 registered midwives, 3,108 registered health visitors and 15,988 auxiliary nurse-midwives. The total number of qualified health visitors in India on 31st December, 1966, was about 5,382.

The number of training institutions for nursing personnel and of students under training at the end of 1967 were as follows (The figures within brackets indicate the number of students): Nurses 253 (19,370); Midwives* 220 (3,820); Auxiliary Nurse-Midwives 334 (10,724); Health Visitors 20 (1,586).

During 1967-68 a sum of Rs. 25 lakhs was given as grant-in-aid for the training of nurses to 45 voluntary organisations in the country and a sum of Rs. 26 lakhs as grant-in-aid for the training of auxiliary nurse-midwives to 75 voluntary organisations.

The Countess of Dufferin's Fund

The Fund which is now a Govt. of India body grants scholarships to Lady Post-graduate and Under-graduate Medical students and B.Sc. (Nursing) and Public Health Nursing students studying in Medical and Nursing Colleges respectively in India.

MEDICAL EDUCATION

The total number of admissions in the medical colleges in the country during the academic year 1967-68 was 11,106.

List of medical colleges university-wise in India during 1967-68 :

Agra University, Agra: S. N. Medical College, Agra. *Allahabad University, Allahabad:* M.L.N. Medical College, Allahabad. *Andhra University, Waltair:* Andhra Medical College, Visakhapatnam; Guntur Medical College, Guntur; Rangaraya Medical College, Kakinada. *All India Institute of Medical Sciences, New Delhi.* *Aligarh Muslim University, Aligarh:* Medical College, Aligarh. *Bihar University, Muzaffarpur:* Darbhanga Medical College, Laheriasarai. *Banaras Hindu University, Varanasi:*

* Of these 215 schools give a 6 to 9 months course to qualified nurses and the remaining five schools give a 12 to 19 months course in Midwifery to candidates, who are not qualified nurses.

College of Medical Sciences, Varanasi. *Baroda University, Baroda*: Medical College, Baroda. *Bombay University, Bombay*: Grant Medical College, Bombay; Seth G. S. Medical College, Bombay; T. N. Medical College, Bombay; Goa Medical College, Panaji; Municipal Medical College, Sion, Bombay. *Bangalore University, Bangalore*: Bangalore Medical College, Bangalore; St. John's Medical College, Bangalore. *Calcutta University, Calcutta*: Medical College, Calcutta; R. G. Kar Medical College, Calcutta; N.R.S. Medical College, Calcutta; Calcutta Nat. Medical Instt., Calcutta; B.S. Medical College, Bankura. *Delhi University, Delhi*: Ladv Hardinge Medical College, New Delhi; Maulana Azad Medical College, New Delhi. *Dibrugarh University, Dibrugarh (Assam)*: Assam Medical College, Dibrugarh. *Gauhati University, Jalikbari (Gauhati)*: Gauhati Medical College, Gauhati; Medical College, Silchar (Assam). *Gujarat University, Ahmedabad*: B. J. Medical College, Ahmedabad; M. P. Shah Medical College, Jamnagar; Municipal Medical College, Ahmedabad. *Jiwa, University, Gwalior*: G. R. Medical College, Gwalior. *University of Indore, Indore*: M.G.M. Medical College, Indore. *University of Jabalpur, Jabalpur*: Medical College, Jabalpur. *Karnatak University, Dharwar*: Karnatak Medical College, Hubli; Medical College, Belgaum; Medical College, Gulbarga. *Nagpur University, Nagpur*: Medical College, Nagpur. *Kerala University, Trivandrum*: Medical College, Trivandrum; Medical College, Calicut; Medical College, Kottayam; T.D. Medical College, Alleppey (Kerala). *University of Lucknow, Lucknow*: K. G. Medical College, Lucknow; G.S.V.M. Medical College, Kanpur. *Madras University, Madras*: Medical College, Madras; Stanley Medical College, Madras; Christian Medical College, Vellore; Kilpauk Medical College, Madras; Medical College, Pondicherry; Thanjavur Medical College, Thanjavur; Medical College, Chingleput; Medical College, Coimbatore. *Madurai University, Madurai*: Madurai Medical College, Madurai; Tirunelveli Medical College, Tirunelveli. *Marathwada University, Aurangabad*: Govt. Medical College, Aurangabad. *Mysore University, Mysore*: Mysore Medical College, Mysore; Medical College, Bellary; Kasturba Medical College, Manipal; Medical College, Davangere. *Osmania University, Hyderabad*: Osmania Medical College, Hyderabad; Gandhi Medical College, Hyderabad; Kakatiya Medical College, Warangal. *Punjab University, Chandigarh*: Medical College, Amritsar; Christian Medical College, Ludhiana; Govt. Medical College, Rohtak; Dayanand Medical College, Ludhiana; Medical College, Simla. *Punjabi University, Patiala*: Govt. Medical College, Patiala. *Patna University, Patna*: P.W. Medical College, Patna. *Poona University, Poona*: B.J. Medical College, Poona; Armed Forces Medical College, Poona. *Rajasthan University, Jaipur*: S. M. S. Medical College, Jaipur; S.P. Medical College, Bikaner; R.N.T. Medical College, Udaipur; Medical College, Jodhpur; Medical College, Ajmer. *Ranchi University, Ranchi*: Rajendra Medical College, Ranchi; M.G.M. Medical College, Jamshedpur. *Ravishankar University, Raipur*: J.L.N. Medical College, Raipur. *S.V. University, Tirupati*: Kurnool Medical College, Kurnool; S.V. Medical College, Tirupati. *Shriji University, Kolhapur*: Miraj Medical College, Miraj; Dr. V. M. Medical College, Sholapur. *Saugar University, Saugar*: S.S. Medical College, Rewa. *Utkal University, Bhubaneswar*: S.C.B. Medical College, Cuttack. *Vikram University, Ujjain*: Gandhi Medical College, Bhopal. *Jammu & Kashmir University, Srinagar*: Govt. Medical College, Srinagar. *Meerut University, Meerut*: L.L.R.M. Medical College, Meerut. *Sambalpur University, Sambalpur*: Burla Medical College, Burla. *Berhampur University, Berhampur*: Medical College, Berhampur. *South Gujarat University, Surat*: Medical College, Surat.

DENTAL EDUCATION

There are now fifteen Dental Institutions all affiliated to Universities, training students for the degree of Bachelor of Dental Surgery (B.D.S.) having facilities for about 580 admissions in all the following Dental Colleges.—

Punjab Govt. Dental College, Amritsar; Nair Hospital Dental College, Bombay; Govt. Dental College & Hospital, Bombay; Dr. R. Ahmed Dental College & Hospital, Calcutta; Dental Wing, K.G. Medical College, Lucknow; Dental Wing, Madras Medical College, Madras; Dental College, Bangalore; Dental College, Trivandrum; Dental Wing, Osmania Medical College, Hyderabad; Dental College & Hospital, Patna; College of Dentistry, Indore; Govt. Dental College, Ahmedabad; Dental Wing, Kasturba Medical College, Manipal (S. Kanara); Govt. Dental College & Hospital, Nagpur; and Dental Wing, Govt. Medical College, Patiala.

The eight specialities for Post-graduate education in Dentistry as prescribed by the Dental Council of India are:—Prosthetic Dentistry, Oral Surgery, Operative Dentistry, Orthodontia, Periodontia, Oral Diagnosis and Dental Radiology, Dental Pathology and Bacteriology, and Pedodontia and Preventive Dentistry.

Thirty-four Post-graduate Departments in the various specialities of dentistry have been established at the following centres:—

Govt. Dental College, Bombay:—Prosthetic Dentistry, Periodontia, Orthodontia, Dental Pathology & Bacteriology, Oral Surgery, Operative Dentistry and Dental Radiology.

Nair Hospital Dental College, Bombay: Prosthetic Dentistry, Periodontia, Operative Dentistry, Orthodontia, Dental Pathology & Bacteriology, Dental Radiology and Oral Surgery.

Dental Wing, K. G. Medical College, Lucknow: Prosthodontics, Periodontics, Orthodontics, Oral Surgery & Preventive Dentistry.

Dental College, Trivandrum: Operative Dentistry & Prosthetic Dentistry.

Dental College, Bangalore: Orthodontia, Oral Surgery and Periodontia.

Punjab Govt. Dental College, Amritsar: Dental Prosthetics, Crown & Bridge Work and Pedodontia & Preventive Dentistry.

Dental Wing, Madras Medical College, Madras: Oral Surgery and Periodontology.

Dr. R. Ahmed Dental College & Hospital, Calcutta: Prosthetic Dentistry.

Government Dental College & Hospital, Ahmedabad: Operative Dentistry, Prosthetic Dentistry, Periodontia, Oral Pathology & Bacteriology and Oral Diagnosis & Radiology.

The Dental Mechanics course extends over a period of two academic years and that for Dental Hygienists lasts for one year.

Facilities for the training of Dental Mechanics are available at: Govt. Dental College & Hospital, Bombay, Dental Wing, K.G. Medical College, Lucknow, Dental College, Trivandrum, Dental Wing, Madras Medical College, Madras, Dental College, Bangalore & various centres of the Armed Forces for Army personnel only.

Facilities for the training of Dental Hygienists are available at: Govt. Dental College & Hospital, Bombay; Dental College, Trivandrum; Dental Wing, Madras Medical College, Madras and Armed Forces Medical College, Poona for Army personnel only.

Progress in Dental Research: The Indian Council of Medical Research and the Government of India have sanctioned at Lucknow Dental College & Hospital a Research Project under PL 480 Grant in (i) Prophylaxis Procedure on the Control of Periodontal Diseases for Rs. 7,62,377 for three years, and (ii) another Research Project under PL 480 Grant for Rs. 6,54,580 for five years on Sodium Fluoride Intake and Dental Caries. There is already a permanent Research Unit in Periodontology at Lucknow sanctioned by the Indian Council of Medical Research for five years for about Rs. 5,00,600. The Dental College at Ahmedabad has also been sanctioned a Research Project in 'Oral Cancer' by the Indian Council of Medical Research under PL 480 Grant for Rs. 10,74,799 for six years. A PL 480 Grant Research Project on 'Oral Cancer' is already in operation at Madras for Rs. 4,01,290 for five years. During 1967 the Indian Council of Medical Research has approved Research Grants for Rs. 3,05,165 for 20 old and new research schemes. One important work is at Lucknow on "Sodium Fluoride Tooth Pastes and Fluoride Phosphate Solution" to arrest Dental Caries in children.

There are roughly 300 Dental Clinics, mostly at District Hospitals and during the next five years more such clinics are expected to be opened at District and Tehsil Hospitals. A sizeable number of School Dental Clinics are expected to be opened in various parts of the country. Each School Dental Clinic shall be designed to look after 3,000 school-going children between the age of 5-16 years.

PHARMACY

The Pharmacy Council of India (Central Council), constituted under the Pharmacy Act of 1948 and situated at Temple Lane, Kotla Road, Post Box No. 337, New Delhi-1, prescribes and regulates the minimum educational standards of pharmacy namely, the educational regulation; approves courses and examinations in pharmacy which are in conformity with the education regulations and qualifications in pharmacy granted outside the extent of the Act for the purpose of qualifying for registration as pharmacist; encourages the development of pharmaceutical courses; educates the public about the profession and prospects in pharmacy; has also recommended a code of pharmaceutical ethics for the members of the profession; maintains a books library and films library on various aspects of pharmacy.

Enforcement of the Pharmacy Act, 1948 :

With a view that the practice of pharmacy is restricted to properly qualified and competent persons, the State Governments constitute a Registration Tribunal which prepare the first Register of all persons who have been in the profession up to a particular date. This leads to the constitution of the State Pharmacy Council which maintains the register thus formed and effect subsequent registration.

Pharmaceutical courses :

The names of 45 institutions which impart the pharmaceutical courses are given below :—

Department of Pharmacy, Andhra University Colleges, Waltair (Andhra Pradesh; B. Pharm); Government Polytechnic for Women, Kakinada (Andhra Pradesh; *D. Pharm); Kamala Nehru Girls Polytechnic, Mukram Jahi Market, Hyderabad (Andhra Pradesh; *D. Pharm); Government Polytechnic, Hyderabad (Andhra Pradesh; D. Pharm); Government Polytechnic, Visakhapatnam (Andhra Pradesh; D. Pharm); Government Polytechnic, Tirupati (Andhra Pradesh; D. Pharm); Assam Medical College, Dibrugarh (Assam; *D. Pharm); Pharmacy School, Patna (Bihar; *D. Pharm); L.M. College of

Pharmacy, Navrangpura, Ahmedabad (Gujarat, *D. Pharm, Inter Pharm, *B. Pharm); Calicut Medical College, Calicut (Kerala, D. Pharm); Maharaja College, Ernakulam (Kerala, M.Sc. Pharmaceutical Chemistry); Pharmacy Department, University of Saugar, Saugar (Madhya Pradesh; *B. Pharm); S. V. Government Polytechnic, Bhopal (Madhya Pradesh; *D. Pharm); Madras Medical College, Park Town, Madras (Madras; *D. Pharm, *B. Pharm); Madurai Medical College, Madurai (Madras, *D. Pharm, *B. Pharm); Christian Medical College, Vellore (Madras, *D. Pharm); Bombay College of Pharmacy, Kalina, Bombay (Maharashtra, *D. Pharm); Government Polytechnic, Karad (Maharashtra; *D. Pharm); College of Engineering, Karad (Maharashtra; *B. Pharm); Government Polytechnic, Jalgaon (Maharashtra; *D. Pharm); Government Polytechnic, Amravati (Maharashtra, *D. Pharm); Department of Chemical Technology, Bombay-19 (Maharashtra; B. Pharm); Nagpur University, Nagpur (Maharashtra, B. Pharm); Poona College of Pharmacy, Poona (Maharashtra, *D. Pharm); Government College of Pharmacy, Bangalore (Mysore, *D. Pharm, *B. Pharm); National Institute of Pharmacy, Shimoga (Mysore, D. Pharm); The Kasturba Medical College, Manipal (Mysore, *D. Pharm, *B. Pharm); V.L. College of Pharmacy, Raichur (Mysore, D. Pharm); S.C.B. Medical College, Cuttack (Orissa, *D. Pharm); School of Pharmacy, Belgaum (Mysore, D. Pharm); Medical College, Burla, Sambalpur (Orissa, *D. Pharm); Government Medical College, Patiala (Punjab; *D. Pharm, and Dressers' Course); Medical College, Amritsar (Punjab, *D. Pharm and Dressers' Course); Rohtak Medical College, Rohtak (Haryana, D. Pharm); Birla Institute of Technology, and Science, Pilani (Rajasthan, *B. Pharm(Hons.), B. Pharm(Tech.)); College of Technology, Banaras Hindu University, Varanasi (U.P., B. Pharm); Government Polytechnic for Women, Ambala (Haryana; D. Pharm); S.M.S. Medical College, Jaipur (Rajasthan, M. Pharm Pharmacology); G.S.V.M. Medical College, Kanpur (U.P., *D. Pharm); Pharmacy Training Centre, Jalpaiguri (West Bengal, *D. Pharm); Jadavpur University, Calcutta (West Bengal; *D. Pharm); Government Polytechnic for Women, Chandigarh (Union Territory; *D. Pharm); Deptt. of Pharmacy, Punjab University, Chandigarh (Union Territory; *B. Pharm); Goa College of Pharmacy, Panaji (Goa; *D. Pharm, B. Pharm); Pusa Polytechnic, Pusa, New Delhi (Union Territory, *D. Pharm).

The following institutions were expected to start pharmaceutical courses during the year 1969 :—

Pharmacy School, Baroda (Gujarat, B. Pharm); College of Pharmacy, Rajkot (Gujarat); Medical College, Trivandrum (Kerala, B. Pharm); Medical College, Kozikode (Kerala); Medical College, Kottayam (Kerala); Nagpur University, Nagpur (Maharashtra, D. Pharm); J.J.M. Medical College, Davengere (Mysore); Government Girls' Polytechnic, Lucknow (U.P.); Sarojini Naidu Medical College, Agra (U.P.); Moti Lal Medical College, Allahabad (U.P.); G.S.V.M. Medical College, Kanpur (U.P., B. Pharm); Government Medical College, Calcutta (West Bengal).

Qualifications granted outside the extent of Pharmacy Act : The Central Council have approved the following qualifications for the purpose of qualifying for registration as a pharmacist in respect of the Indian Nationals : Degree in Pharmacy granted by any accredited college of pharmacy of the U.S.A.; Degree in Pharmacy of B.Sc. (Pharm) of a British University; Diploma of Chemist and Druggist and Pharmaceutical Chemist of the Pharmacy Society of Great Britain; Diploma in Pharmacy of the University of Adelaide, South Australia; Doctorate in

* Approved by the Pharmacy Council of India for qualifying for registration as a Pharmacist under Pharmacy Act, 1948.

Science (Pharmaceutical Chemistry) granted by the University of Frankfurt a/m, West Germany; Pharmaceutical Diploma granted by the Government of Goa (Pre-independence)†; Compounder's Diploma in Pharmacy granted by the Government of Burma; Diploma granted by the Ceylon Authorities to those who have practised Pharmacy for a period of five years; Diploma for Pharmacist granted by East Bengal Government; and Dresser's Diploma Grade I, II and III granted by the Federated Malaya States; † Diploma in Pharmacy granted by the Universities of Switzerland before December, 1973.

Practical Training :

The student pharmacists have to undergo a practical training in an approved institution — hospital/dispen-

† These courses are recognised for registration in First Register only.

sary for a period of not less than 750 hours covered in, not less than 3 months. The Central Council has approved 230 institutions having a training capacity of 1,071 student pharmacists. State-wise number of institutions and available seats respectively are as under :—

Assam : 7 ; 27 ; Andhra : 19 ; 109 ; Bihar : 14 ; 91 ; Gujarat : 24 ; 21 ; Haryana : 6 ; 13 ; Tamil Nadu : 25 ; 287 ; Maharashtra : 45 ; 172 ; Mysore : 39 ; 115 ; Punjab : 22 ; 88 ; U.P. : 2 ; 19 ; West Bengal : 21 ; 110 ; Delhi : 4 ; 15 ; Chandigarh : 1 ; 4 .

Registration of Pharmacists :

There were 74,547 pharmacists registered by the end of December, 1966 in India.

INDO-PAKISTAN RELATIONS

Some items and incidents in Indo-Pakistan relations during the period under review—May 1968 to July 1969 :—

As in the case of China, a separate note of protest was also sent to Pakistan (as was revealed in the first week of May 1968) about the construction of a strategic road from Sinkiang in China to Gilgit in Pakistani-occupied Kashmir. The protest arose because it infringed Indian sovereignty.

It was reported in the middle of June that the Italian Government had agreed on a representation from India to put an embargo on the sale of surplus tanks to Pakistan. It was pointed out to the Government of Italy that such a sale could damage relations between Italy and India.

On June 28, Mr. Arshad Husain, the then Foreign Minister of Pakistan made a statement in the Pakistan Assembly to the effect that Pakistan would never accept the cease-fire line in Kashmir as an international boundary. He added that while he was in India he found no 'change of heart', which according to him, was needed to solve mutual problems. He said that Pakistan attached the highest priority to a settlement of differences with India, sp. Kashmir and the Farakka Barrage. He drew a distinction between 'election' and 'plebiscite' that while a plebiscite reveals the will of the people, an election is merely a question of choosing candidates for a legislature.

In a strongly worded protest note delivered on July 5 India denied with emphasis that she had had any part in the so-called conspiracy in East Pakistan for secession. It was explained that this was wholly a matter of internal disaffection in Pakistan. The charge made in the course of the trial that India had promised arms supply for a planned revolt was a figment of the imagination. At no time did India interfere in the internal affairs of Pakistan and is not interested in doing so. The note also rejected the charges made against Mr. P. N. Ojha, who had been Indian Deputy High Commissioner in Dacca as completely false. It expressed its sense of disappointment that far from trying to normalise relations between India and Pakistan as was required by the Tashkent Declaration, the Pakistan Government should have attempted to involve India in what are essentially Pakistan's internal affairs.

In another note in the same month India made the charge that Pakistan had violated the spirit of the Tashkent Declaration by distorting and exaggerating some communal riots that had taken place in this country. The two countries had bound themselves to eschew hostile propaganda which may harm relations and prevent the peaceful

resolution of differences. As a matter of fact, Pakistan's leaders contrary to the spirit of this clause in the Declaration were making false and inflammatory speeches about the condition of Muslims in India.

In August reports about Soviet arms supplies to Pakistan created dismay and consternation in India and led to the diplomatic exchanges between India and the U.S.S.R. There appeared to have been no straight answer from the Soviet Union but Mr. Kosygin declared that the sending of arms supplies to Pakistan were decided from the point of view of friendship between India and the Soviet Union.

Talks had been taking place between India and Pakistan over the Farakka Barrage. Pakistan Strategy appeared to be to try to involve a third party and make it a political and not a technical issue. Pakistan was making fantastic demands and wanted the Kosi and Gandak projects also to be brought under the purview of the talks. India was resisting both, and Mr. K. L. Rao, Minister for Irrigation & Power, gave the assurance that the construction of the barrage was progressing according to schedule and was expected to be completed ahead of time.

In the last week of August the Rajasthan Government asked the Government of India to annul the citizenship of some thousands of persons who had migrated to Pakistan during the 1965 conflict. Rajasthan was confronted with the problem of large-scale infiltration from Pakistan. But there appeared to be legal complications in the matter of annulment.

There was a charge from Pakistan (middle of August) that India was making large-scale war preparations to which India replied by saying that Pakistan should know the charge is absurd. India had no territorial designs whatever on Pakistan. Pakistan leaders were making false charges to cover up their own ambitions. Pakistan was, in fact, feverishly engaged in doubling her war potential.

In September India and Pakistan agreed on a demarcation of the Kutch boundary on a sectional basis, and also that the work should be completed by May 1969 as was earlier decided.

On October 4, documents were released by the Ministry of External Affairs offering proof of Pakistan's complicity with the Naga and Mizo hostiles.

On Oct. 14, it became known that Pakistan's Enemy Properties Management Board had offered for sale Rs. 100 crores worth of Indian assets.

On Oct. 26, the eve of the tenth anniversary of his assumption of power, President Ayub in a broadcast declared that he was willing to sign a no-war pact with India provided it was accompanied by another pact laying down how the two countries could settle their differences.

On Nov. 10, India made known her concern to U.S. and Turkey about reports in regard to a decision to supply to Pakistan 100 U.S. M-47 tanks through Turkey. This was later denied by the Turkish Government.

On Nov. 26, Pakistan announced the auction of Indian evacuee property in the western wing of the country. India had previously warned Pakistan that if she continued in her policy of auctioning Indian property seized during the conflict normalising relations would become difficult.

In the middle of Nov. there were reports from Kashmir that the State Government had smashed a Pakistani spying, which had ramifications throughout the State.

There started on December 15 a five-day conference of Indian and Pakistani officials in New Delhi on the Farakka barrage. It ended with no constructive results.

Pakistan has a project report on what is called the Ganga Barrage projects involving the fantastic expenditure of Rs. 450 crores and designed to irrigate 9 million acres. Such a project, it has been pointed out, will submerge a good part of West Bengal and East-Pakistan. Pakistan has also raised the demand for water from the Ganges to the absurd figure of 58,000 cusecs from the original figure of 3,500. The prospects of a settlement were dim.

At a news conference on Jan. 1, 1969, in New Delhi, the Prime Minister, Mrs. Gandhi, commenting on President Ayub's views on the proposed no-war pact, said that it was no use trying to have such a pact on the condition that differences should first be settled.

On Jan. 9, the Supreme Court held that the implementation of the Kutch Award did not involve cession of Indian territory to Pakistan. Hence there was no need for a constitutional amendment.

On Jan. 10, the third anniversary of Tashkent, India proposed the setting up of joint machinery to go into various Indo-Pakistan problems. Pakistan's response was negative.

The Indian Defence Minister, Mr. Swaran Singh, said in Parliament on Feb. 19 that Pakistan had brought war material from foreign countries valued at over \$700 million.

The Minister for Defence Production, Mr. L. N. Mishra confirmed in Parliament that Russian war equipment had been sent to Pakistan.

Mr. Swaran Singh, the Defence Minister, admitted for the first time in Parliament that there was a change in Russian policy towards Pakistan since Tashkent.

During his visit to Afghanistan, the Russian Prime Minister, Mr. Kosygin, suggested talks among Iran, India, Afghanistan and Pakistan for regional co-operation. In June 23, it was reported from Kabul that Afghanistan had contacted India in connection with a conference on regional transit regulations and facilities through the use of the Afghan highway net-work for east-west and north-south overland transit. Turkey had also been contacted.

On June 26, India protested to Pakistan as she did to China about a second road linking Sinkiang and Pakistani-occupied Kashmir, as this territory legally belongs to India. The note said that the purpose in building the road was military expansionism.

On July 4, the plenipotentiaries of India and Pakistan signed the strip maps of demarcation of Rann of Kutch. The ceremony took place in Islamabad.

SINO-INDIAN RELATIONS

ABOUT July 1968 a re-thinking on India's relations with China became faintly visible. In what direction the change was sought to be effected was not clear, but that there was a vague general desire for change in certain official and also non-official quarters, there can be little doubt. Re-thinking may have been going on under the surface but what brought it above ground was reports that Russia had at last decided to supply Pakistan with arms, however small the supply may be and of whatever nature.

Actually there were about three or four factors which may have induced a change. First, there was the feeling that relations cannot remain frozen for all time and for two neighbours to remain at daggers drawn perpetually would hurt both the countries. Secondly, all over the world a resorting of relations was taking place between erstwhile adversaries. There were conscious efforts at detente and relaxation between the parties on the two sides of the iron curtain. Russia was improving her relations with her neighbours to the south for instance, with Turkey and Persia, and also Pakistan. And in the United States voices were being raised in favour of some kind of tentative approach to China. The defence burden is also beginning to tell in the context of the desperate search for plan resources. Confronted with the necessity of taxing agricultural income (a tentative effort in this direction is already proposed), which is not very palatable, one or two Chief Ministers of the Standing Committee

of the National Development Council proposed that the question of reducing the defence expenditure (without affecting efficiency) should be considered. But how can one reduce the defence burden, it was asked, without removing or at least minimising the pressure of causes that led to the imposition of the burden? In addition to all this, there was a certain disappointment at the attitude of the West both in the matter of the amount of military help consequent on the Chinese attack, and of a certain ambiguity that is discernible in the assessment of the nature and the significance of our dispute with China.

But what influenced Indian opinion more powerfully than anything else was the fact that Pakistan had succeeded in establishing a kind of *modus vivendi* with three big powers which mattered to her, Russia, America and China without apparently antagonising any of the three. In fact, Pakistan appeared to have made a specially profitable bargain by following a thoroughly neutral and pragmatic policy. In contrast, Indian policy seemed somehow rigid, lacking any capacity for manoeuvre. On top of all this came news about the Russian agreement to provide arms to Pakistan.

First evidence of this change of thinking in India came from the nature of the answers that the Prime Minister gave in Parliament in December 12. Mrs. Gandhi said India had an open mind in regard to a dialogue with China, but there had been no indication of any re-thinking on the part of China, which continued to behave in an un-

predictable way. Mrs. Gandhi was in fact answering a number of questions on the possibility of an exchange of ambassadors and establishing a detente with China. She said that so far, there had been no indication of any desire on the part of China for a change for the better. She elaborated her earlier point by saying that because a country is extremely hostile at the moment, it does not mean that the situation would continue to remain the same. Ideas about sending an ambassador appeared to be premature.

The question was pursued at a press conference on January 1 in New Delhi. Here Mrs. Gandhi visualised the possibility of finding some way of resolving the dispute with China, however difficult the situation, though whatever India does would have to be consistent with national honour and interest. The difficulties were immense. China was in occupation of Indian territory; she still put out extremely hostile propaganda, and helped with arms and training facilities to Naga and Mizo rebels.

Much of this had been said before but many observers at the press conference had the impression that things were somehow different this time. The Prime Minister appeared to be intent on lowering the temperature somewhat. For instance, she deprecated the tendency to say of any country that it is our greatest single enemy. She quite clearly disapproved of the Tibetan demonstrations before the Chinese Embassy the day before. Mrs. Gandhi also appeared to argue against rigidity, and said that by adopting inflexible attitudes one could not expect to solve anything. Standing fast on present positions had not helped to tackle any of the problems that divide India from China. Some observer professed to notice that there was in the External Affairs Ministry a point of view which seems to demand that our attitude to China should be such that the door to understanding is open so that China could come through if and when she is ready.

But then, as the Prime Minister herself confessed at the press conference, that though we should find some way out of the difficulty she does not know what the way is. That these difficulties are serious is generally recognised. There is, for instance, a conviction that China and Pakistan are now so closely involved in each other's fortunes that it may be useless to try to restore good relations with the one without being prepared to make corresponding adjustments in our relations with the other. And this is too daunting and too huge a task to contemplate.

The second difficulty in trying to normalise relations with China is that here it is not merely a question of removing suspicion or misunderstanding, of a better appreciation of one another's needs and difficulties or of a discovery of common interest. What is involved is at best a tacit acquiescence in the loss of territory, at worst a willingness to actually cede territory which belongs to us. This is too great a sacrifice for any self-respecting country to make.

Some individual items, incidents that marked Sino-Indian relations during the period under review are given below :—

On March 4, 1968, Red Guards from the Chinese Embassy kidnapped an Indian constable by name Ghan-shyam and kept him under detention for four hours. He was released after the External Affairs Ministry

intervened. Third degree methods were reported to have been employed to extort confession. A case of kidnapping was registered.

* * *

The Indian Embassy in Peking, was compelled to move to new premises despite protest. There was an exchange of correspondence between the two countries on the subject, in which India made the point that this was a violation of an old contract drawn up in 1954. But India was ready to give up the plot for another suitable site, and was also prepared to move into the new premises indicated, but compensation would have to be paid.

* * *

It was learnt on May 9 that the Government of India had sent separate protest notes to China and Pakistan for infringing Indian sovereignty through the construction of a strategic road linking the Chinese province of Sinkiang to Gilgit in Pakistan occupied Kashmir. It is an all-weather road and can take heavy traffic—at least that part which is in Sinkiang could. It was also reported at the time that the agreement between China and Pakistan about the building of the road described Gilgit as being part of Pakistan. This seemed sinister because a previous agreement between the two countries over the demarcation of the boundary said that it was provisional and merely took note of the actual position without prejudice to the legal status of the area. The new agreement therefore looked like a marked shift in China's position in relation to Kashmir and the dispute that Pakistan had raised over it.

On June 10 the Official Chinese news agency charged India with having intruded into Chinese air space on several occasions. It alleged that Indian military planes flew over the Shantung area of Tibet and across the Sikkim border. It further charged that these intrusions were carried out in co-operation with 'U.S. imperialists' and 'Soviet revisionists'. India denied that there were any such incursions.

On June 26, 1969 India lodged a strong protest with both Pakistan and China against the construction of a new road from Mor Khun in Northern Kashmir to the Khunjerab Pass in the Kashmir-Sinkiang border to facilitate Chinese troop movements from Sinkiang and Tibet into Pakistan-occupied Kashmir and then on to Pakistan in case any crisis developed in the area.

It was explained by a spokesman of the Indian Government that the road on the Chinese side had been completed. Work on the western side was in progress. The Government was considering what further action could be taken besides protesting.

On April 23, the Chinese troops across Nathu La delivered an ultimatum to Indian security forces asking that the Indian forces should vacate. If they did not leave by noon the following day, the Chinese threatened they would open fire. There was a second warning on April 24. But the Indian troops stuck to their ground, and cautioned the Chinese against reckless action. This also led to a diplomatic exchange in New Delhi in which the Chinese Charge d'Affaires gave an assurance that the Chinese had strict instructions not to open fire except in self-defence. The ultimatum expired, and nothing happened.

KERALA MINISTRY

The Kerala's 32-month Marxist-led United Front Ministry resigned on Oct. 24, 1969 after it was defeated in the State Assembly, by 69 votes to 60 on a motion seeking to include the Marxist Ministers within the ambit of the graft probe.

GENERAL INDEX

	PAGE		PAGE
A			
Aarey Milk Colony	378	All-India Trade Union Congress	442
Absenteeism (Labour)	124	" Women's Conference	442
Accidents (Labour)	126	Alloy Steel Project (G.I.U.)	154, 235
" (Railways)	237	Aluminium (Non-Ferrous Industry)	201
Administration of Justice	92	Ambar Charkha (Cottage Industries)	181
Administrative Personnel, Central Govt.	513	Ambassadors, Indian	527
" " States	497	" Foreign	531
" Staff College of India	439	Amendment of the Constitution	98
Aerodromes (Civil Aviation)	965	American Studies Research Centre	439
Aeronautical Communication Services	966	Amravati District	389
Aeronautics (India) Ltd.	13	Amreli District	346
" " Hindustan	152	Andaman and Nicobar Islands	315
Afro-Asian Rural Reconstruction Organisation	535	Andhra Chamber of Commerce	482
Agencies, Social Service	252	" Paper Mills	158
Agency for International Development (U.S. Aid to India)	143	" Pradesh State Corporations	102
Agents/Representatives of Overseas Firms in Bombay	816	" Pradesh	317
Agra University	431	" Administrative Personnel	497
Agreements, Trade & Payment (Import & Export Trade)	72	" Associations, Institutions, etc.	439
Agricultural Education	39	" Classified List of Trades & Professions	538
" Credit Societies	83	" Commercial Firms	537
" Marketing Societies	84	" Fisheries	33
" Prices Commission	31	" Govt. Ind. Und.	158
" Processing Societies (Cooperative Movement)	84	" Legislative Assembly	274
" Production	37	" " Council	276
" Re-Finance Corporation	98	" Universities	320
" Science University	402	Animal Diseases (Livestock)	62
" Tractors (Misc. Industry)	199	Animals (Statistics)	63
" Universities	402, 433	Annamalai University	424
Agriculture	37	Antibiotics Ltd., Hindustan	152
Foodgrains	37	Antimony (Non-Ferrous Industry)	200
Tenancy Reforms	39	Apprentices Act, 1961	124
Ahmedabad District	346	Archaeological Survey of India	516
Associations, Societies etc.	448	Area & Population (States & Union Territories)	40
Classified List of Trades and Professions	569	Area & Production (Agriculture)	37
Commercial Firms	568	Areca nut Industry	163
Ahmednagar District	388	Arjuna Awards	138, 963
Aid to India, Foreign	146	Army, Indian (Defence Services)	14, 515
" " U.S.	143	Art Silk	209
Aircraft	966	Asbestos (Mines & Minerals)	193
Air raft Manufacturing Depot	13	Ashoka Hotels Ltd.	149
Air Force, Indian	15, 515	Assam Gas Co. Ltd. (G.I.U.)	158
" India	267, 965	" Oil Company	204
AIR Stations (Broadcasting)	111	" State	321
Air Transport (Civil Aviation)	964	" Administrative Personnel	498
Airlines Corporation, Indian	964	" Associations	440
Airway Companies	267	" Govt. Ind. Und.	158
Akhil Bharat Hindu Mahasabha	305	" Legislative Assembly	277
Akola District	388	" N.E.F.A.	327
Alcohol Industry	163	" Universities	326
Aligarh University	431	Assam State Corporations	102
Alkali Industry	173	Associations, Institutions etc.	439-497
Allahabad University	432	Association for Moral and Social Hygiene	442
All-India Corporations	98	Atomic Energy	247
Forward Bloc	306	" Minerals (Research)	248
" Harijan Sevak Sangh	441	" Power Stations, Tarapur	249
" Manufacturers' Organisation	454	" Reactors	248
" Organisation of Industrial Employers	441	" Research Centre, Bhabha	247
" Radio	111, 523	Audit Bureau of Circulations Ltd.	454
" Shippers Council	441	Auditor-General of India	517
		Aurangabad District	389
		Automobile Industry	164
		" Development Council	165
		Automotive Research Association of India	169
		Auxiliary Air Force	16

	PAGE		PAGE
A—(Contd.)			
Aviation, Civil	964	Bombay Benevolent Institutions	459
Aviation, Naval (Defence Services)	15	" Chambers of Commerce	459
Aviation Training Centre (Civil Aviation)	966	" Classified List of Overseas Firms	816
Awards & Prizes	133, 963	" " List of Trades & Professions	685, 815
B		" Commercial Firms	595
Backward Classes	143	" Cultural and Scientific Institutions	462
Balance of Payments (Import & Export Trade)	70	" Educational Institutions	469
Balimela Dam	319	" Labour Institute	463
Balimela Hydro-Elec. Project	407	" Management Association	463
Balkan-Ji-Bari	463	" Missionary and Religious Societies	474
Banaras Hindu University	432	" Municipal Corporation	384, 505
Banaskantha District	346	" Port	115
Banasthali Vidyapith	481	" Railway Personnel	505
Bangalore Trades and Professions	834	" Technical Institutions	469
" University	402	" University	387
Banking	64	" Vigilance Association	464
Banks & Bankers (Maharashtra)	820	Bonus (Labour)	128
Barauni Thermal Power Scheme	332	Border Roads (Roads)	130
Baroda District	346	Botanical Survey of India	516
" Trades & Professions	577	Brass (Non-Ferrous Industry)	201
" University	347	British Council, The	472
Bauxite (Mines & Minerals)	191	" Institute of Engg. Technology	472
Beas Project	86	Broach District	347
Bee-keeping Industry (Cottage Industry)	182	Broadcasting	109
Benevolent Institutions in Greater Bombay	459	Budget (Central), 1969-70	106
Berhampur University	408	" (Railways), 1969-70	241
BEST	387, 505	Budgets (States), 1969-70	263
Bhabha Atomic Research Centre	247	Builders' Association of India	456
Bhadra Project	87, 399	Buildings Construction Corpn. Ltd., National	100
Bhagalpur University	334	Buldana District	389
Bhakra-Nangal Project (Irrigation)	87	Bullion	66
Bhandara District	389	Bulsar District	347
Bhandarkar Oriental Research Institute	476	Burdwan University	436
Bharat Earthmovers Ltd.	149	Burmah-Shell Refineries Ltd.	205
" Electronics Ltd.	149	C	
" Heavy Electricals Ltd.	149	Calcutta Commercial Firms	837
" Plate and Vessels Ltd.	150	" list of Trades & Professions	848
" Sewak Samaj	442, 463	" Municipal Corporation	436
Bharatiya Adimjati Sevak Sangh	442	" Port	115
" Jan Sangh	306	" University	436
" Natya Sangh	442	Caltex Oil Refining (India) Ltd.	206
" Vidya Bhawan	472	Cancer Society, Indian	465
Bhavnagar District	347	Capital Market	67
" Public Dairy Ltd.	158	" Issues	69
Bhir District	389	" Receipts and Disbursements (Public Finance)	108
Bhilai Steel Project (Govt. of India Undertakings)	154	CARE	442
Bicycles (Misc. Industries)	197	Carpentry & Blacksmithy	184
Bihar State	328	Cashew Export Promotion Council	451
" " Administrative Personnel	499	Cashew Nut Industry	170
" " Associations	440	Cattle (Livestock)	60
" " Corporations	162	Caustic Soda	174
" " Govt. Ind. Undertakings	158	Ceiling on Holding (Agriculture)	39
" " Leg. Council	300	Cement Industry	172
" " Universities	334	" Corporation of India Ltd.	98
" " Vidhan Sabha	298	Census (Population), 1961	40
Biological Science Societies (Research)	243, 244	Central Board of Film Censors (Film Industry)	233
Birla Research Institute for Applied Sciences	453	" Board of Secondary Education	515, 968
Blind Men's Association	460	" Bureau of Correctional Services	252
" " Institutions	131	" Bureau of Investigation	522
Board of Secondary Education	515	Central Cooperative Banks	83
Board of Film Censors, Central	233, 522	" Drugs Laboratory	521
Bokaro Steel Plant	150, 235	" " Std. Control Orgn.	521
Bombay Agents/Representatives of Overseas Firms	816	" Food Tech. Research Instt.	516
" Associations (Trade and Commercial)	454		
" Banks & Bankers	820		

	PAGE		PAGE
C—(Contd.)			
Central Govt. Adm. Personnel	513	Corporations, All India	98
„ Inland Fisheries Research Instt. .. .	519	„ State	102
„ Land Development Banks (Cooperative Movement)	84	Cost of Living (Labour)	122
„ Machine Tool Institute	478	Cottage Industries	180
„ Railway	238, 505	„ Match Industry	183
„ Road Transport Corporation Ltd. .. .	98	Cotton	223
„ Schools	968	Cottonseed Oil	228
„ Silk Board	520	Council of Applied Economic Research, National .. .	446
„ Social Welfare Board	254, 514	„ of Scientific and Industrial Research .. .	244, 516
„ State Farm	414, 416	Countess of Dufferin's Fund	987
„ Training Institute	972	Courts (Administration of Justice)	92
„ Warehousing Corporation	98	Crafts Council of India	464
„ Water & Power Commission	523	Craftsman's National Award	136
Chambal Hydel Projects	369	Craftsmen Training Schemes	124
Chambers of Commerce in Bombay	459	Cultural, Political, Professional Institutions in Bombay	462
Chanda District	390	Cultural Scholarships	136
Chemical & Pharmaceutical Industry	173	Custodian of Enemy Property	520
Chemicals Development Co. Ltd. (G.I.U.) .. .	157	Cuttack Iron & Steel Products Ltd.	161
Chief Labour Commissioner (Labour)	127	D	
Child Welfare	253	Dadra and Nagar Haveli	340
Children's Film Society	232	Dairy Research Institute, National	519
Chillies (Spices)	219	Dairying (Livestock)	62
Chittaranjan Locomotive Works (G.I.U.) .. .	150, 525	Daman & Diu, Goa	337
Chola, Koyna Projects	376	Damodar Valley Project	87
Chromite (Mines & Minerals)	192	„ „ Corpn.	523
Cities and their Population	42	Dangs District	347
Civil Aviation	964	Darjeeling (Tourist's Guide)	6
Classified List of Overseas Firms and their Bombay Agents etc.	816	Dearness Allowance (Labour)	122
Coal & Lignite (Mines and Minerals)	191	Debt Position (Public Finance)	109
„ Development Corporation, National	100	Deccan College Post-Graduate and Research Institute	476
„ Mines Labour Welfare Fund	126	Defence College, National	14
„ Washeries	154	„ Institute of Work Study	488
Cochin Port	115	„ Services	12, 515
„ Refineries Ltd.	150, 205	Delhi	335
Code of Discipline (Labour)	126	Administrative Personnel	499
Coffee Board	178, 520	Associations, Societies, etc.	441
„ Industry	177	Classified Trades and Professions	547
Coimbatore Commercial Firms	592	Commercial Firms	542
„ Trades and Professions	593	Municipal Corporation	337
Coir Board	520	University	337
„ Industry	178	Demographic Training & Research Centre	464
Collieries, Singaneri	158	Denotified Communities	143
Commercial Associations in Greater Bombay .. .	454	Dental Education	988
„ Banks (Banking)	64	Department of Company Affairs	522
„ Broadcasting	109	Deposit Insurance Corporation	99
„ Firms and Classified Trades, States .. .	537	Deposits (Banking)	64
Commission for Scientific & Technical Terminology .. .	970	Development in Trade Policy	71
„ on Labour, National	126	„ Council for Automobiles	165
Communications Service, Overseas	148	„ in Exchange Control	77
Communist Party of India	307	Dhulia District	390
„ „ „ (Marxist)	306	Dibrugarh University	326
Community Development Projects and Panchayats .. .	112	Diesel Locomotive Works, Varanasi	150
Congress, Indian National	307	Directorate of Advertising & Visual Publicity	26
Constitution of India	95	„ „ Radiation Protection	248
Consular Offices in India, Foreign	533	„ General of Factory Advice Service (Labour)	127
Consulates-General, and Consulates	529	„ „ „ Health Services	521
Consumer Price Index Numbers	162	„ „ „ Observatories	514
Controller of Imports & Exports	519	Directorate	526
Cooley Fund (U.S. Aid)	144	„ „ „ Shipping	520
Co-operative Banks	83	„ „ „ Supplies & Disposals	520
„ for American Relief Everywhere	442	Diseases (Public Health)	984
„ Movement (1966-67), The	83	Divine Life Society	488
„ Sugar Factories	84, 221	Dockyard Apprentice School	472
Copper	193, 199	Documentaries (Film Industry)	232

	PAGE		PAGE
G—(Contd.)			
Government of India Personnel	513	Hindustan Machine Tools Ltd.	152, 522
" " " Constitution	95	" Organic Chemicals Ltd.	153
" " " Trade Commissions ..	530	" Photo Film Mfg. Co. Ltd.	153
" Precision Instruments Factory ..	161	" Salts Ltd. (Govt. Ind. Undertakings) ..	153
" Sandalwood Oil Factories	160	" Shipyards Ltd. (Govt. Ind. Undertakings) ..	153
" Silk Weaving Factory	159	" Steel Ltd. (Govt. Ind. Undertakings) ..	154, 526
" Soap Factory	160	" Teleprinters Ltd.	154
Gram Sevaks and Sevikas (Awards & Prizes) ..	137	" Zinc Ltd.	155
Greater Bombay	383	Hirakud Dam Project (Irrigation)	88, 408
Associations, Institutions etc.	454	Hotels (Tourist's Guide)	11
Corporation	384	Housing	313, 377
Gujarat Ayurved Univ.	450	Housing Factory Ltd., Hindustan	152
Gujarat State	340	Hutti Gold Mines Co. Ltd.	160
Administrative Personnel	500	Hyderabad Municipal Corporation	321
Associations, etc.	448	" & Secunderabad Commercial Firms ..	537
Classified List of Trades & Professions ..	569	" " Trades & Professions ..	538
Commercial Firms	568	" Tanneries Ltd.	158
Fisheries	33	Hydrogenated Oils	229
Govt. Ind. Undertakings	158	I	
Housing Board	345	Idikki H.E. Project	362
Irrigation Projects	344	I.L.O., India and the	127
Legislative Assembly	278	Import & Export Trade	70, 983
University	346	" of Metals and Alloys	195
Gujarat State Corporations	102	Imports (Food)	28
" " Fertilizers Co.	158	Income, National	76
Gujarat Vidyapith	964	Income-Tax Appellate Tribunal	524
Gur and Khandasari (Cottage Industries) ..	183	Index Numbers of Wholesale Prices	162
Gypsum (Mines and Minerals)	192	India Foundation	476
H		" Government Silver Refinery	155
Haffkine Institute	465	" Tourism Development Corpn.	99
Handicrafts	185	India's Map (Facing page 1.)	
" Board, All-India	520	India's Relations with China	991
" Handlooms Exports Corpn. of India		Indian Air Force	15, 515
Ltd.	99	" " Lines Corporation	964
Handloom Board, All-India	520	" Army	14, 515
Handlooms (Cottage Industry)	181	" Cancer Society	465
Handmade Paper Industry	182	" Constitution	95
Hardwar (Tourist's Guide)	7	" Cotton Mills Federation	457
Harold Laski Institute of Political Science ..	448	" Council of Agricultural Research	519
Haryana	350	" " for Cultural Relations	444
" Adm. Personnel	501	" " of Foreign Trade	457
" State Corporations	103	" " of Management Executives	465
" Vidhan Sabha	279	" " of Medical Research	444
Health, Public	983	" Drugs and Pharmaceuticals Ltd. (G.I.U.) ..	155, 525
Heavy Electricals Ltd. (Govt. Ind. Undertakings) ..	151, 522	" Embassies Abroad	527
" Engg. Corpn. (Govt. Ind. Undertakings) ..	151	" Federation of University Women's Associa-	
" Vehicles Factory (Govt. Ind. Undertakings) ..	152	tion	444
" Water Plants	248	" Federation of Working Journalists	444
Hides, Skins and Leather	186	" Govt. Trade Commissions	530
High Commissions in India (Foreign)	532	" Institute of Management	448
" " Abroad, Indian	528	" " " Mass Communications (Broad-	
" " Courts (Administration of Justice) ..	93	casting)	112
Highways, National (Roads)	129	" " " Public Administration	444
Himachal Pradesh	353	" " " Science	478
" " Administrative Personnel	501	" " " Technology	473
" " Vidhan Sabha	279	" Investment Centre	444
Hind Mazdoor Sabha	465	" Machine Tool Mfrs. Assoc.	457
Hindi, Sanskrit & Modern Indian Languages		" Merchants' Chamber	459
(Education)	970	" Motion Pictures Export Corpn. Ltd.	99
Hindu Mahasabha, Akhil Bharat	305	" National Congress	307
Hindustan Aeronautics Ltd.	152, 515	" " Trade Union Congress	444
" Antibiotics Ltd.	152	" " " Navy	15, 515
" Cables Ltd.	152, 522	" News Agencies	26
" Housing Factory Ltd.	152	" Nursing Council	444
" Insecticides Ltd.	152	" Oil Corporation Ltd.	155, 205, 525
" Latex Ltd.	152	" Railway Passengers Conference Association ..	465

	PAGE
I—(Contd.)	
Indian Rare Earths Ltd. (G.I.U.)	155
„ Red Cross Society	444
„ School of International Studies	445
„ „ of Mines	445
„ „ of Public Administration	445
„ Standards Institution	155
„ Telephone Industries Ltd. (G.I.U.)	530
„ Trade Commissions Abroad	70
Indians Overseas	371
Indira Kala Sangeet Vishwavidyalaya	990
Indo-Pakistan Relations	371
Indore University	99
Industrial Credit and Investment Corporation ..	99, 518
„ Development Bank of India	100
„ „ Corporation, National	120
„ Disputes, Statistics	100
„ Finance Corporation of India	450
„ Information Centre	313
„ Housing Scheme	255
„ Production 1968	244
„ Research Council	67
„ Securities Market (Capital Market)	84
„ Societies	149
„ Undertakings, Government	26
Information Services (The Press)	445
Institute of Applied Manpower Research	515
„ „ Armament Technology	473
„ for Training in Industrial Engg.	445
„ of Chartered Accountants of India	521
„ „ Communicable Diseases, National	112
„ „ Mass Communication (Broadcasting)	445
„ „ Nuclear Medicines and Allied Sciences	445
„ „ Office Management in India	131
Institutions for the Blind in India	244
„ for Research in Humanities	156
Instrumentation Ltd. (G.I.U.)	16
Insurance	156, 525
Integral Coach Factory (G.I.U.)	483
International Art Centre	535
„ Bank for Reconstruction and Development	535
„ Bodies in India	446
„ Chamber of Commerce	136
„ Children's Competition	446
„ Confederation of Free Trade Unions	466
„ Council on Social Welfare	446
„ Cultural Centre	130
„ Highways (Roads)	535
„ Labour Officer	253
„ Welfare Agencies	138
Inventions (Awards & Prizes)	191
Iron Ore (Mines and Minerals)	85
Irrigation	249
Isotope Laboratory	371
J	
Jabalpur University	437
Jadavpur University	390
Jalgaon District	354
Jammu and Kashmir State	103
Jammu & Kashmir State Financial Corporation ..	501
„ „ Administrative Personnel	356
„ „ Associations	159
„ „ Govt. Ind. Undertakings	159

	Page
Jammu & Kashmir Legislative Assembly and Leg. Council	280
" " University	356
Jamnagar District	347
Jan Sangh, Bharatiya	306
Janpath Hotels Ltd.	156
Jawaharlal Nehru Krishi Vishwa Vidyalaya	371
Jayanti Shipping Co. Ltd.	156
Jiwaji University	371
Jnanpith Award	140, 963
Jodhpur University	41
Joint Management Councils (Labour)	127
Junagadh District	348
Jute Industry	188
K	
Kadana Project (Gujarat)	345
Kaira District	348
" " Coop. Milk Producers' Union	450
Kalakshetra	483
Kalamandalam	452
Kalinga Prize (Awards & Prizes)	139, 964
Kalinadi H.E. Project	399
Kalyani University	437
Kameshwara Singh Darbhanga Sanskrit University	335
Kandla Port	115
Kanpur University	432
Karnatak University	402
Kashmir (Tourist's Guide)	8
Kashmir State, Jammu &	354
Kerala Associations	451
" " Fisheries	33
" " Govt. Ind. Undertakings	159
" " Irrigation	362
" " Legislative Assembly	280
" " Premo Pipe Factory Ltd.	159
" " State	357
" " " Administrative Personnel	502
" " " Corporations	103
Kerala University	363
Khadi and Village Industries Commission	180
Khandala	392
Kolaba District	390
Kolar Gold Mining Undertakings	156
Kolhapur District	391
Korba Thermal Station	369
Kosi Project (Irrigation)	88
Kothagudem Thermal Scheme (Andhra Pradesh)	319
Kulu Valley (Tourist's Guide)	8
Kurukshetra University	353
Kutch District	348
Kuttiadi H.E. Project	362
L	
Laboratories, National	245
Labour	117
Labour Institute, Bombay	463
Lac Industry	189
Laccadive, Minicoy and Amindivi Islands	364
Lalit Kala Akademi	446
" " " Awards	
Land Acquisition and Development Scheme	314, 377
" " Development Banks	84
Languages (Population)	52
Languages, Modern Indian (Education)	971
Late Particulars	963
Lead (Non-Ferrous Industry)	200
Lead-zinc Ore (Mines & Minerals)	192

PAGE

L—(Contd.)

Leather Industry, Village (Cottage Industry) ..	183
Legislative Assemblies, Councils, Lok Sabha & Rajya Sabha	274-305
Legislature (Constitution of India)	97
Lemongrass Oil (Veg. Oil Industry.)	229
Life Insurance Corporation	16,518
Lighthouses (Ports)	114
Lignite Corpn., Neyveli	157
Lime Mfg. Industry (Cott. Ind.)	184
Limestone (Mines & Minerals)	192
Literacy (Population)	46
Livestock	60
Loan Scholarships (Education)	971
Locomotive Works, Diesel	150
Lok Sabha	294
Lonavla	392
Low-Income Group Housing Scheme	313, 377
Lube India Ltd. (Petroleum Ind.)	205
Lubrizol India Ltd. (Petroleum Ind.)	205
Lucknow University	432

M

Machine Tool Corporation of India	100
„ Tools Ltd., Hindustan	152
Machkund Hydro-Electric Scheme (Andhra Pradesh)	318
Madhya Pradesh	365
Administrative Personnel	503
Associations, Societies, etc.	453
Govt. Ind. Und.	160
Irrigation Schemes	369
Legislative Assembly	281
State Corporations	103
Universities	371
Madhya Pradesh Laghu Udyoy Nigam Ltd.	160
Madurai University	424
Magadh University	334
Magnesite (Mines & Minerals)	192
Mahableshwar	394
Maharaja Sayajirao University of Baroda	347
Maharashtra Chamber of Commerce	477
„ Electricity Board	375
„ Labour Welfare Board	379
„ Legislative Assembly	283
„ Ports	116
Maharashtra State	372
Administrative Personnel	504
Agriculture	381
Associations (Trade & Commercial) in Greater Bombay	454-478
Banks & Bankers	820
Basic Facts & Figures	372
Benevolent Institutions in Greater Bombay	459
Chambers of Commerce in Greater Bombay	459
District Associations	475
Districts	388-395
Educational Institutions in Greater Bombay	469
Electric Power Development	375
Employees State Insurance Scheme	379
Fisheries	34
Govt. Ind. Undertakings	160
Greater Bombay	383
Greater Bombay Corporation	384
Housing	377
Industries	380
Irrigation	379
Legislative Assembly & Council	283, 284

PAGE

Milk Scheme	378
Minerals	381
Power Projects	376
Road Transport	378
University of Bombay	387
Maharashtra State Awards	135
„ „ Corporations	104
Maithon-Sultanganj Transmission Scheme	332
Management Councils, Joint (Labour)	127
Manganese Ore	160, 191
Manipur	395
„ Administrative Personnel	506
„ Legislative Assembly	285
Maps (See under each State)	
Maritime Union of India	457
Marathwada University	389
Marketing Societies, Agricultural (Coop. Movement)	84
Match Industry (Cottage Industries)	183
Matheran Hill Station	9
Maternity (Public Health)	986
Maternity Benefit (Table)	119
Mathura-Brindavan	9
Mazagon Dock Ltd. (Govt. Ind. Undertakings)	156
Mechanised Farms	29
Medical Council of India	446
„ Radiology	984
„ Research	251
„ Education (Public Health)	987
„ Science Societies (Research)	243, 244
Medium of Instruction in Universities (Education)	972
Medium Wave Transmitters (Broadcasting)	109
Meerut University	432
Mehsana District	348
Mental Hospitals	987
Merchant Navy Training	218
Metals & Alloys, Production of	195
Meteorology	58
Meteorological Department, India	514
Mica (Mines & Minerals)	192
„ Mine Welfare Fund	126
Middle Income Group Housing	314, 377
Military Schools	14
Milk Plants (Livestock)	62
Milk Colony, Aarey	378
Millets (Agriculture)	38
Millowners' Association, Bombay	458
Mineral Development Corporation	100
„ Sand Industry	247
Minerals & Metals Trading Corporation of India Ltd.	100
Mineral Production in India (Tables)	194
Mines and Minerals	190
Minicoy & Amindivi Islands	364
Minimum Wages	126
Ministries (States) and (Central)	497-527
Minor Irrigation	86
Miscellaneous Awards	139
Mint, India Govt.	518
Miscellaneous Industries	197
Missionary & Religious Societies in Greater Bombay	474
Modern Bakeries (India) Ltd.	156
Mogul Line Ltd. (G.I.U.)	156
Money Supply	75
Motion Pictures Export Corporation, Indian	99
Motorcycles, Scooters & Three Wheeler Vehicles	167
Motor Vehicles	131, 167, 169
Mulberry Silk	215
Mussoorie (Tourist's Guide)	9

	PAGE		PAGE
M—(Contd.)			
Mysore State	395	NEFA	327
Administrative Personnel	506	Nehru Awards	138, 964
Association, Societies, etc.	478	News Agencies	26
Fisheries	35	Newspaper Representatives Assoc.	458
Govt. Ind. Undertakings	160	Newspapers (The Press)	21
Irrigation Projects	397	Newspapers & Periodicals (See 'Classified List of Trades & Professions')	
Legislative Assembly & Council	285, 286	Newsprint	25, 203
Trades and Professions, Bangalore	834	News-reels (Film Industry)	232
Universities	402	Neyveli Lignite Corporation Ltd. (G.I.U.)	157
Mysore State Corporations	104	Nickel (Non-Ferrous Industry)	201
„ „ Electricity Board	399	Nitrogenous Fertilisers	174
„ „ Govt. Undertakings	160	Nomadic & Semi-Nomadic Tribes	143
„ „ „ Road Transport Corporation	402	Non-Agricultural Credit Societies	83
N		Non-Credit Societies	84
Nagaland	403	Non-edible Oils & Soap (Cottage Industries)	182
„ Administrative Personnel	506	Non-Ferrous Industry	199
„ Legislative Assembly	287	North Bengal University	437
Nagar Haveli, Dadra and	340	North-East Frontier Agency	327
Nagarjunasagar Project (Irrigation)	88	„ „ Railway	239, 499
Nagpur District	391	North-Eastern Railway	238, 511
„ University	391	Northern Railway	238, 499
Nahan Foundry (Govt. Ind. Undertakings)	156	Nuclear Reactors	248
Naini Tal (Tourist's Guide)	9	Nuclear Research and Atomic Energy (Research)	247
Nanded District	391	Nursing (Public Health)	987
Narmada Project (Gujarat)	345	O	
Nasik District	391	Oil and Natural Gas Commission	204, 524
National Association for the Blind	461	„ Exploration and Production	204
„ Awards	134	„ India Ltd.	204
„ Awards for Children	136	„ Technological Research Institute	440
„ Awards for Films	139	Optical Glass	157
„ „ for Teachers	135	Ordnance Factories (Defence Services)	13
„ Book Trust of India	446	Orissa	403
„ Buildings Construction Corporation	100	„ Administrative Personnel	507
„ Cadet Corps (Defence Services)	13	„ Associations, Institutions etc.	480
„ Coal Development Corpn. Ltd.	100	„ Fisheries	35
„ Commission on Labour	126	„ Legislative Assembly	287
„ Cooperative Development Corpn.	100	„ State Corporations	105
„ Council of Applied Economic Research	446	„ „ Govt. Undertakings	161
„ „ of Educational Research and Training	515, 968	„ Univ. of Agriculture & Technology	408
„ Design Institute	448	Osmanabad District	392
„ Film Archive of India	232	Osmania University	320
„ Fitness Corps.	515, 971	Overseas Communications Service	148, 514
„ Highways (Roads)	129	„ Firms, Agents for	816
„ Income	76	P	
„ Industrial Development Corporation	100	Pachmarhi (Tourist's Guide)	10
„ Institute of Sciences of India	446	Paints and Varnishes (Chemical Industry)	175
„ Institute for Training in Industrial Engineering	473	Pallathra Bricks & Tiles	159
„ „ of Communicable Diseases	521, 983	Pallivasal H.E. Project (Kerala)	362
„ Instruments Ltd.	157	Palm-Gur (Cottage Industries)	183
„ Laboratories	245	Palmarosa Oil (Veg. Oil Ind.)	228
„ Mineral Development Corporation	100	Panch Mahals District	348
„ Newsprint and Paper Mills Ltd.	160	Panchayati Raj	112
„ Productivity Council	447	Panchgani	394
„ Projects Construction Corporation	101	Paper Industry	202
„ Research Development Corpn.	101	Parbhani District	392
„ Savings Commissioner for India	518	Parliament	96
„ Scholarships Scheme (Education)	971	Patna University	335
„ Seeds Corporation Ltd.	101	Patrattu Thermal Power Station	332
„ Small Industries Corporation	101	Peasants' and Workers' Party of India	308
„ Textile Corporation Ltd.	101	PEN, All-India Centre	467
„ T.B. Institute of India	478	Pepper (Spices)	219
Nationalised Transport (Roads)	131	Petroleum Industry	203
Naval Aviation	15		

	PAGE		PAGE
P—(Contd.)		R	
Pharmaceutical Industry	173	Rabindra Bharati University	437
Pharmacy (Public Health)	989	Radiochemistry Laboratory	249
Phosphatic Fertilizers	174	Radio & Electricals Manufacturing Co. Ltd. ..	161
Photo Films Mfg. Co., Hindustan	153	Radio News Reels (Broadcasting)	111
Photographic Materials	175	„ Photo Service (Overseas Communications Service)	148
Physical Science Societies (Research) ..	242, 244	„ Telephone Services (Overseas Communications Service)	148
Physiography	1	Radiology, Medical (Public Health)	984
Pine Oil (Vegetable Oil Ind'y.)	228	Railway Board	525
P. L. 480 (U.S. Public Law)	144	Railway Budgets	241
Planning Commission	523	Railway Service Commission	505, 510, 511, 512
Plastics Industry	206	Railways	236
Plutonium Plant (Research)	249	Rainfall of India	59
Political Parties of India	305	Rajasthan State	414
Pondicherry State	409	„ Administrative Personnel	509
„ Administrative Personnel	508	„ Associations, Institutions etc.	481
„ Legislative Assembly	288	„ Legislative Assembly	289
Poona District	392	„ State Corporations	105
„ University	393	„ Universities	418
„ Trades & Professions	829	Rajkot District	349
Population (1961 Census)	40	Rajya Sabha	297
Ports	114	Ramkrishna Math & Mission	495
Posts and Telegraphs	81	Ramkrishna Mission Sevashram	488
„ „ „ Board	514	Ranchi University	335
Potassic Fertilizers, Imports of (Table) ..	175	Rare Earth Plant (Research)	247
Pottery Industry (Cottage Industries) ..	183	„ „ Indian	155
Poultry (Livestock)	61	„ Metals (Mines & Minerals)	193
Praga Tools Ltd.	158	Ratan Tata Industrial Institute	467
Praja Socialist Party	309	Rationing (Food)	29
Press, The	20	Ratnagiri District	393
„ Circulation (Newspapers)	22, 25	Ravishankar University	371
„ Newspapers and Periodicals (Tables) ..	23	Rayon Industry	207
„ Press Associations, Societies	27	Receipts and Disbursements (Public Finance) ..	108
„ Press Clippings	27	Refineries	204
„ Press Photo Agencies	27	Regional Institute of English, South India ..	478
„ Press Council	27	Regulated Markets (Agriculture)	38
„ Press Laws	25	Rehabilitation of the Handicapped	127, 253
Press Information Bureau	26, 523	Rehabilitation Industries Corporation Ltd. ..	101
Primary Education	967	Reliefs in Excise Duties (Public Finance) ..	167
„ Land Mortgage Banks (Coop. Movement) ..	84	Religion-wise Population	56
Printing & Designing, Awards	137	Religious Societies in Gr. Bombay	474
Private Sector Refineries	204	Rental Housing Scheme	314
Prizes and Awards	133, 963	Representatives/Agents of Overseas Firms ..	816
Production, Agricultural	37	Republic Day Awards	133
„ (Industrial), 1968	255	Re-rolling Industry (Steel Industry)	235
„ Minerals	194	Research	242
Prohibition	128	„ Association of India, Automobile	169
Projects Construction Corporation, National ..	101	„ Bodies	250
Public Accounts Committee (Lok Sabha) ..	297	„ (Civil Aviation)	966
„ Finance	106, 983	Research and Development (Defence Services) ..	12
Public Health	983	„ (Fisheries)	32
Public Law 480, U.S. (U.S. Aid)	144	„ in Humanities	244
Public Sector Refineries	204	„ (Irrigation)	86
Public Service Commission, Union	527	Reserve Bank of India	518
„ Undertakings Committee (Lok Sabha) ..	297	Resettlement Directorate (Defence Services) ..	14
Punjab	410	Revolutionary Socialist Party	309
„ Administrative Personnel	508	Revenue and Expenditure, Sources of	106
„ Agricultural University	413	Rice (Agriculture)	38
„ Associations, Institutions etc.	480	River Valley Projects (Irrigation)	86
„ Legislative Assembly & Council	288, 289	Road Transport Corporation Ltd., Central ..	98
„ State Corporations	105	Roads	129
Punjabi University	413	Rockefeller Foundation	447
Pyrites and Chemicals Development Co. Ltd. ..	157	Roorkee University	432
		Rourkela Steel Plant	154
		Rubber Industry	209
		Rural and Urban Population	41
		Rural Higher Education	969

	PAGE		PAGE
S		Sino-Indian Relations	99
Sabarkantha District	349	Slum Clearance Improvement Scheme	314, 377
Safety Awards, National	134	Small Industries Corporation, National	101
„ First Association of India	467	S.N.D. Thackersey Women's University	388
Sahitya Akademi (Delhi)	447	Snow-bound areas (Population)	42
„ Awards	134	Social Control (Banking)	65
Sainik Schools	14	„ Control (Insurance)	20
Salt (Mines and Minerals)	193	„ Education	970
Sambalpur University	408	„ Reforms (Administration of Justice)	94
Samyukta Socialist Party	309	„ Welfare in India	251
Sangeet Natak Akademi (Delhi)	447	Soil Conservation (Agriculture)	38
„ „ „ Awards	136, 963	Soldiers', Sailors' and Airmen's Board (Defence Services)	14
Sangli District	393	South Central Railway	239, 498
Sant Nirankari Mandal	447	South-Eastern Railway	239, 512
Sanyukta Sadachar Samiti	447	South Gujarat University	349
Sanskrit Vishva Vidyalaya, Varanaseya	489	Southern Railway	239, 510
„ and Modern Indian Languages (Education)	970	Soviet Land Nehru Awards	139
Sardar Patel University	348	Space Research (Research)	249
Sarva Seva Sangh	488	Special Courts (Administration of Justice)	93
Satara District	394	Spices	219
Satellite Communication Station	250	Sports	312
Satpura Thermal Station	369	„ Awards	138
Saugar University	371	Sri Ramakrishna Mission Vidyalaya	486
Saurashtra University	349	Sri Venkateswara University, Tirupati	321
Sayajirao Univ. of Baroda	347	St. John Ambulance Association	448, 461, 486
Scheduled Banks (Banking)	64	State Associations	439-497
„ Castes, Tribes & Backward Classes	140	„ Awards for Printing and Designing	137
„ Castes & Sch. Tribes (Population)	41, 52	„ Bank	518
Scholarships (Education)	971	„ Budgets, 1969-70	263
„ in Humanities & Social Sciences	135	„ Co-operative Banks	83
„ for Teachers' Children	971	„ Corporations	102
School of Foreign Languages (Defence Services)	14	„ Owned or State-Aided Undertakings	158
Scientific Societies (Research)	242	„ Trading Corporation of India	101
„ & Industrial Research, Council of	244	„ -wise Allocation & Expenditure on Sch. Castes & Sch. Tribes Welfare (table)	141
Sea Cadet Corps	468	States Adm. Personnel	497-512
Secondary Education	968	„ Commercial Firms & Classified Trades	537
Securities Market (Capital Market)	67	„ Territories	1
Seeds Corporation, National	101	Steel Industry	234
Sericulture and Silk	212	„ Plant, Hindustan	154
Servants of India Society	477	Stock Exchange, Bombay	458
Service Medals (Defence Services)	14	Subsidiary Foods (Food)	30
Sex Ratio (Population)	40	Subsidised Industrial Housing Scheme	313, 377
Shankar's International Children's Competition Awards	136	Sugar Industry	220
Sharavathi Valley Project	399	Sulphur (Mines and Minerals)	192
Sharda Peeth	450	Sulphuric Acid	173
Sheep (Livestock)	61	Supreme Court of India	92, 527
Shikar Outfitters	4	Sur-Singar Award	140
Shilpi Kendra	468	Surat District	349
Ship Building & Repairs (Defence Services)	13	Surcharges on Cotton Fabrics	225
Shipping Companies and Airways	264	Surendranagar District	350
„ Corporation of India Ltd.	157	Survey of India	517
„ Industry	216	Swatantra Party	310
Shipyards Ltd., Hindustan	153	Sweepers' Housing Scheme	377
Shiromani Gurdwara Parbandhak Committee	481	Synthetic Rubber (Rubber Industry)	210
Shivaji Loka Vidyapitha	475		
„ University	391	T	
Sholapur District	394	Talcher Thermal Scheme	407
Shops and Commercial Establishments, Statistics	121	Tamil Nadu	419
Shram Vir Awards	134	Administrative Personnel	510
Shri Ram Institute of Industrial Research	448	Associations, Societies	482
Silk Board, Central	214	Coimbatore District	423
„ Industry	212	Madras Classified List of Trades and Professions	585
Silver Refinery, India Govt.	155	Madras Commercial Firms	581
Singareni Collieries	158	Madras Corporation	423